



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 4, 2023 – 10:01 AM EDT

PDB ID : 2KUS  
BMRB ID : 16745  
Title : Spatial structure of Antimicrobial Peptide Sm-AMP-1.1a  
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<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.33

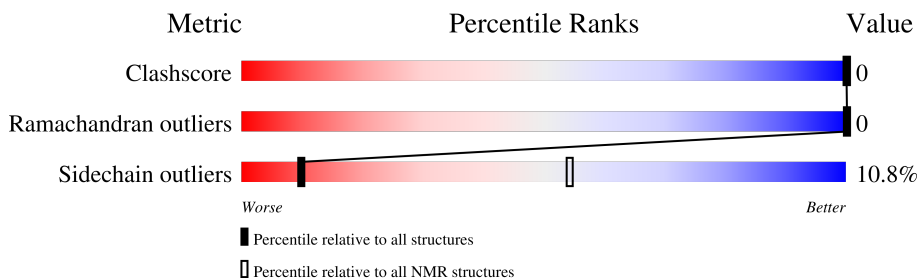
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 77%.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



| Metric                | Whole archive (#Entries) | NMR archive (#Entries) |
|-----------------------|--------------------------|------------------------|
| Clashscore            | 158937                   | 12864                  |
| Ramachandran outliers | 154571                   | 11451                  |
| Sidechain outliers    | 154315                   | 11428                  |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1   | A     | 35     | <br>77% 20%      |

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 15 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

The following residues are included in the computation of the global validation metrics.

| Well-defined (core) protein residues |                          |                   |              |
|--------------------------------------|--------------------------|-------------------|--------------|
| Well-defined core                    | Residue range (total)    | Backbone RMSD (Å) | Medoid model |
| 1                                    | A:1-A:12, A:18-A:33 (28) | 0.18              | 15           |

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 3 clusters and 2 single-model clusters were found.

| Cluster number        | Models                      |
|-----------------------|-----------------------------|
| 1                     | 7, 8, 9, 12, 16, 18, 19, 20 |
| 2                     | 2, 3, 4, 5, 6, 10           |
| 3                     | 1, 11, 13, 15               |
| Single-model clusters | 14; 17                      |

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 440 atoms, of which 202 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Sm-AMP-1.1a.

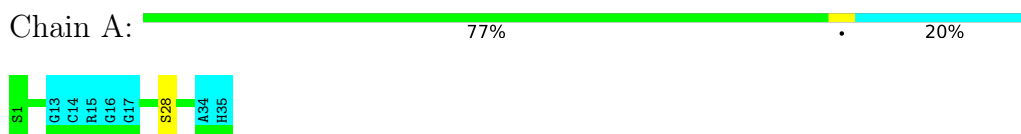
| Mol | Chain | Residues | Atoms |     |     |    |    |   | Trace |
|-----|-------|----------|-------|-----|-----|----|----|---|-------|
|     |       |          | Total | C   | H   | N  | O  | S |       |
| 1   | A     | 35       | 440   | 143 | 202 | 45 | 44 | 6 | 0     |

## 4 Residue-property plots

### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Sm-AMP-1.1a

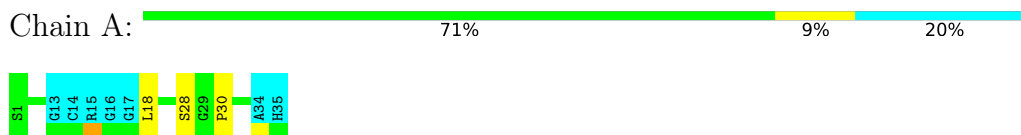


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

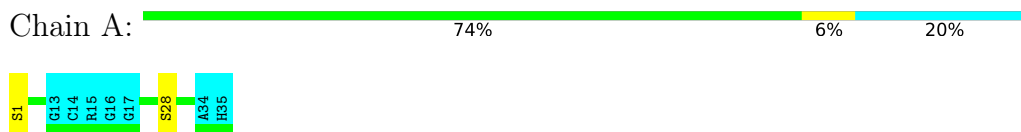
#### 4.2.1 Score per residue for model 1

- Molecule 1: Sm-AMP-1.1a



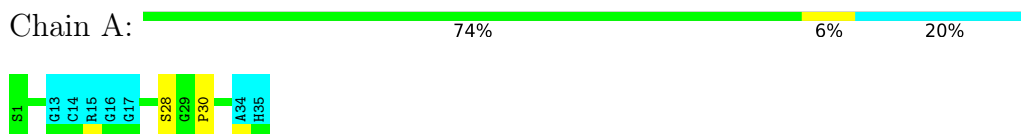
#### 4.2.2 Score per residue for model 2

- Molecule 1: Sm-AMP-1.1a



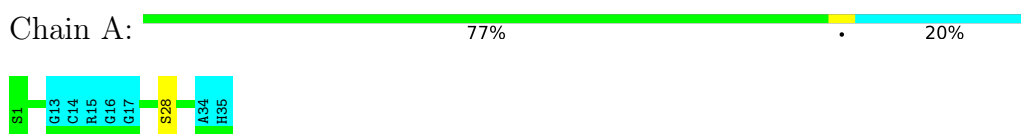
### 4.2.3 Score per residue for model 3

- Molecule 1: Sm-AMP-1.1a



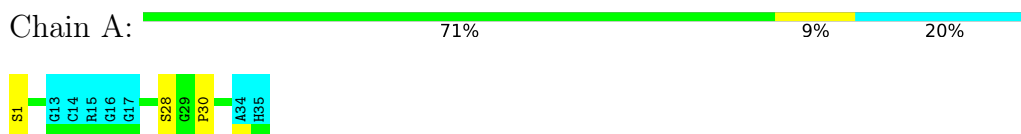
### 4.2.4 Score per residue for model 4

- Molecule 1: Sm-AMP-1.1a



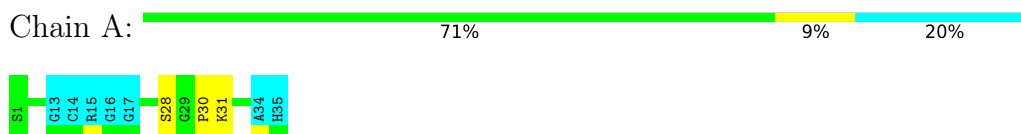
### 4.2.5 Score per residue for model 5

- Molecule 1: Sm-AMP-1.1a



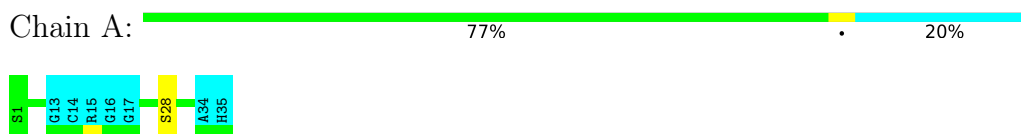
### 4.2.6 Score per residue for model 6

- Molecule 1: Sm-AMP-1.1a



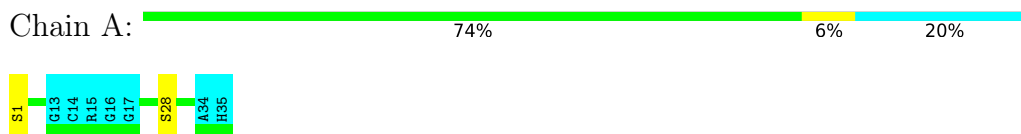
### 4.2.7 Score per residue for model 7

- Molecule 1: Sm-AMP-1.1a



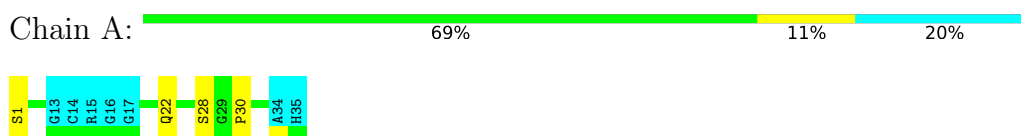
#### 4.2.8 Score per residue for model 8

- Molecule 1: Sm-AMP-1.1a



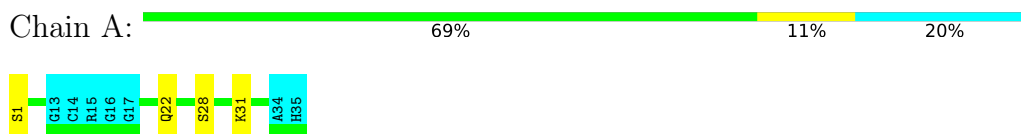
#### 4.2.9 Score per residue for model 9

- Molecule 1: Sm-AMP-1.1a



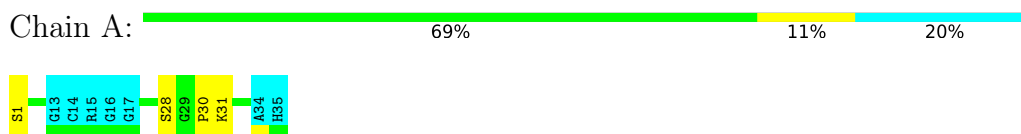
#### 4.2.10 Score per residue for model 10

- Molecule 1: Sm-AMP-1.1a



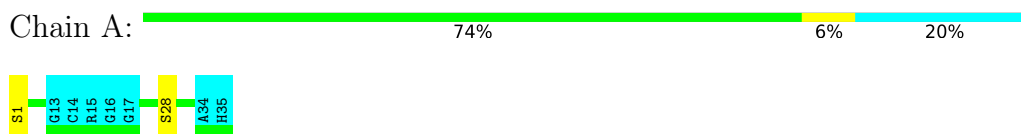
#### 4.2.11 Score per residue for model 11

- Molecule 1: Sm-AMP-1.1a



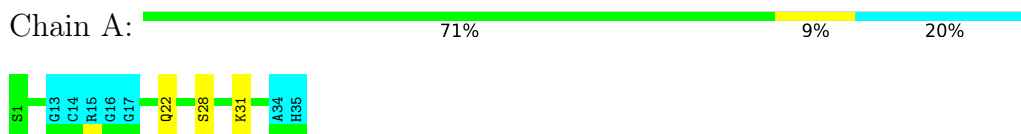
#### 4.2.12 Score per residue for model 12

- Molecule 1: Sm-AMP-1.1a



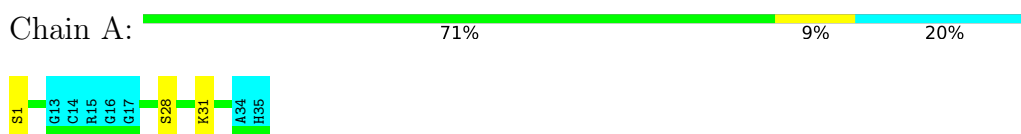
#### 4.2.13 Score per residue for model 13

- Molecule 1: Sm-AMP-1.1a



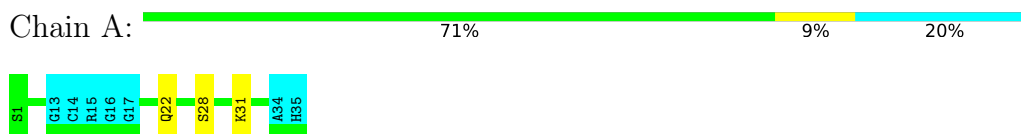
#### 4.2.14 Score per residue for model 14

- Molecule 1: Sm-AMP-1.1a



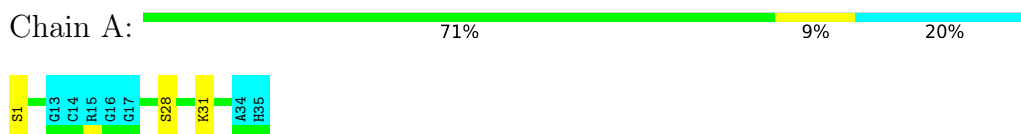
#### 4.2.15 Score per residue for model 15 (medoid)

- Molecule 1: Sm-AMP-1.1a



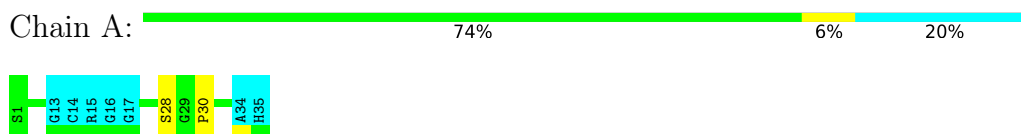
#### 4.2.16 Score per residue for model 16

- Molecule 1: Sm-AMP-1.1a



#### 4.2.17 Score per residue for model 17

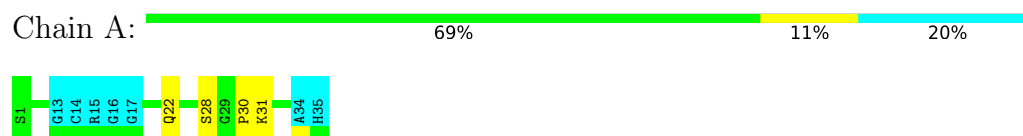
- Molecule 1: Sm-AMP-1.1a





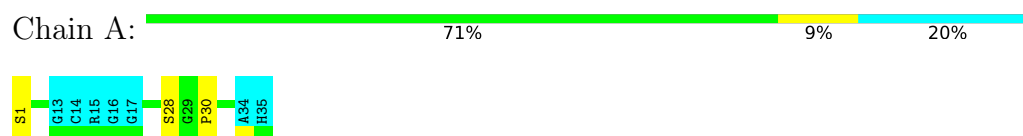
#### 4.2.18 Score per residue for model 18

- Molecule 1: Sm-AMP-1.1a



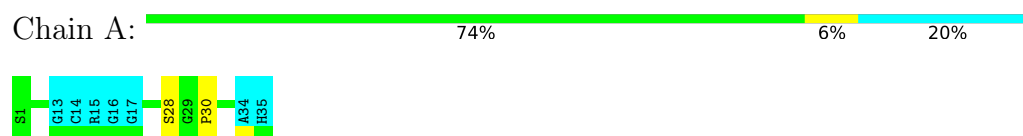
#### 4.2.19 Score per residue for model 19

- Molecule 1: Sm-AMP-1.1a



#### 4.2.20 Score per residue for model 20

- Molecule 1: Sm-AMP-1.1a



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *TORSION ANGLE DYNAMICS*, *TORSION ANGLE DYNAMICS*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function*.

The following table shows the software used for structure solution, optimisation and refinement.

| Software name | Classification     | Version |
|---------------|--------------------|---------|
| CYANA         | structure solution | 2.1     |
| CYANA         | refinement         | 2.1     |

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

|  |                |
|--|----------------|
| Chemical shift file(s)                       | working_cs.cif |
| Number of chemical shift lists               | 1              |
| Total number of shifts                       | 280            |
| Number of shifts mapped to atoms             | 280            |
| Number of unparsed shifts                    | 0              |
| Number of shifts with mapping errors         | 0              |
| Number of shifts with mapping warnings       | 0              |
| Assignment completeness (well-defined parts) | 77%            |

## 6 Model quality [i](#)

### 6.1 Standard geometry [i](#)

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1   | A     | 194   | 163      | 165      | 0±0     |
| All | All   | 3880  | 3260     | 3300     | -       |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is -.

There are no clashes.

### 6.3 Torsion angles [i](#)

#### 6.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

| Mol | Chain | Analysed      | Favoured     | Allowed    | Outliers   | Percentiles |     |
|-----|-------|---------------|--------------|------------|------------|-------------|-----|
| 1   | A     | 27/35 (77%)   | 25±0 (93±1%) | 2±0 (7±1%) | 0±0 (0±0%) | 100         | 100 |
| All | All   | 540/700 (77%) | 502 (93%)    | 38 (7%)    | 0 (0%)     | 100         | 100 |

There are no Ramachandran outliers.

### 6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

| Mol | Chain | Analysed      | Rotameric    | Outliers    | Percentiles |
|-----|-------|---------------|--------------|-------------|-------------|
| 1   | A     | 20/23 (87%)   | 18±1 (89±5%) | 2±1 (11±5%) | 10 54       |
| All | All   | 400/460 (87%) | 357 (89%)    | 43 (11%)    | 10 54       |

All 4 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1   | A     | 28  | SER  | 20             |
| 1   | A     | 1   | SER  | 10             |
| 1   | A     | 31  | LYS  | 8              |
| 1   | A     | 22  | GLN  | 5              |

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

### 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues

There are no chain breaks in this entry.

## 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 77% for the well-defined parts and 74% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

|   |     |
|---|-----|
| Total number of shifts                  | 280 |
| Number of shifts mapped to atoms        | 280 |
| Number of unparsed shifts               | 0   |
| Number of shifts with mapping errors    | 0   |
| Number of shifts with mapping warnings  | 0   |
| Number of shift outliers (ShiftChecker) | 2   |

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

| Nucleus                | # values | Correction $\pm$ precision, ppm | Suggested action         |
|------------------------|----------|---------------------------------|--------------------------|
| $^{13}\text{C}_\alpha$ | 33       | 0.34 $\pm$ 0.14                 | None needed (< 0.5 ppm)  |
| $^{13}\text{C}_\beta$  | 24       | —                               | None (insufficient data) |
| $^{13}\text{C}'$       | 0        | —                               | None (insufficient data) |
| $^{15}\text{N}$        | 0        | —                               | None (insufficient data) |

#### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 77%, i.e. 230 atoms were assigned a chemical shift out of a possible 297. 0 out of 1 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

|           | Total         | $^1\text{H}$ | $^{13}\text{C}$ | $^{15}\text{N}$ |
|-----------|---------------|--------------|-----------------|-----------------|
| Backbone  | 86/142 (61%)  | 60/61 (98%)  | 26/56 (46%)     | 0/25 (0%)       |
| Sidechain | 109/116 (94%) | 75/75 (100%) | 34/37 (92%)     | 0/4 (0%)        |

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|          | Total         | <sup>1</sup> H | <sup>13</sup> C | <sup>15</sup> N |
|----------|---------------|----------------|-----------------|-----------------|
| Aromatic | 35/39 (90%)   | 18/18 (100%)   | 17/20 (85%)     | 0/1 (0%)        |
| Overall  | 230/297 (77%) | 153/154 (99%)  | 77/113 (68%)    | 0/30 (0%)       |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 74%, i.e. 276 atoms were assigned a chemical shift out of a possible 371. 0 out of 1 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

|           | Total         | <sup>1</sup> H | <sup>13</sup> C | <sup>15</sup> N |
|-----------|---------------|----------------|-----------------|-----------------|
| Backbone  | 110/180 (61%) | 77/78 (99%)    | 33/70 (47%)     | 0/32 (0%)       |
| Sidechain | 129/144 (90%) | 89/93 (96%)    | 40/44 (91%)     | 0/7 (0%)        |
| Aromatic  | 37/47 (79%)   | 20/22 (91%)    | 17/22 (77%)     | 0/3 (0%)        |
| Overall   | 276/371 (74%) | 186/193 (96%)  | 90/136 (66%)    | 0/42 (0%)       |

#### 7.1.4 Statistically unusual chemical shifts [i](#)

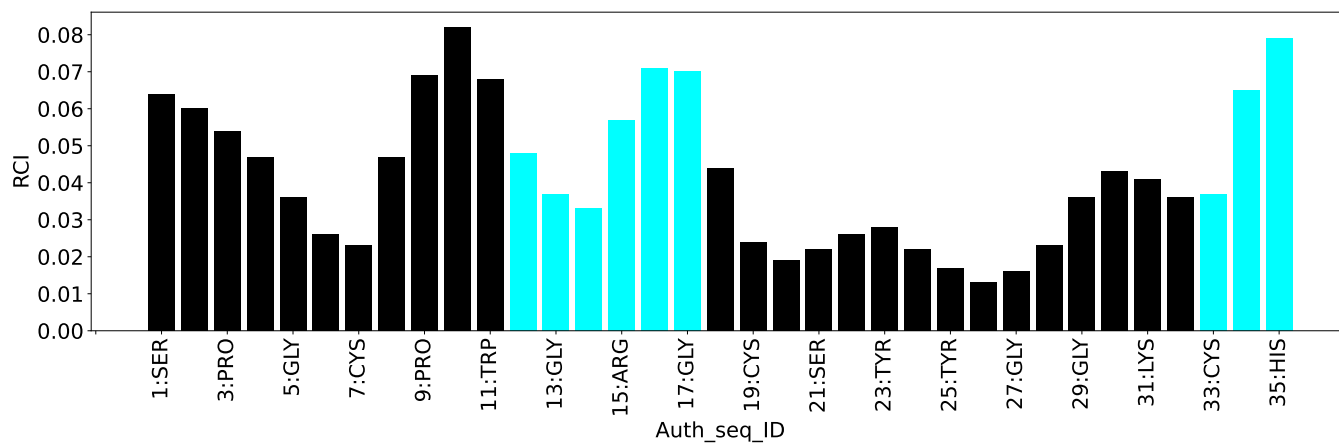
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, ppm | Expected range, ppm | Z-score |
|---------|-------|-----|------|------|------------|---------------------|---------|
| 1       | A     | 6   | GLN  | HB2  | 0.15       | 0.80 – 3.29         | -7.6    |
| 1       | A     | 6   | GLN  | HB3  | 0.65       | 0.71 – 3.33         | -5.2    |

#### 7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:





## 8 NMR restraints analysis

### 8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

| Description  | Value |
|--|-------|
| Total distance restraints                                | 5007  |
| Intra-residue ( $ i-j =0$ )                              | 279   |
| Sequential ( $ i-j =1$ )                                 | 282   |
| Medium range ( $ i-j >1$ and $ i-j <5$ )                 | 802   |
| Long range ( $ i-j \geq 5$ )                             | 3644  |
| Inter-chain  | 0     |
| Hydrogen bond restraints                                 | 0     |
| Disulfide bond restraints                                | 0     |
| Total dihedral-angle restraints                          | 0     |
| Number of unmapped restraints                            | 0     |
| Number of restraints per residue                         | 143.1 |
| Number of long range restraints per residue <sup>1</sup> | 104.1 |

<sup>1</sup>Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

### 8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

#### 8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

| Bins (Å)         | Average number of violations per model | Max (Å) |
|------------------|--|---------|
| 0.1-0.2 (Small)  | 9.6                                    | 0.2     |
| 0.2-0.5 (Medium) | 30.5                                   | 0.5     |
| >0.5 (Large)     | 4443.4                                 | 28.84   |

### 8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis i

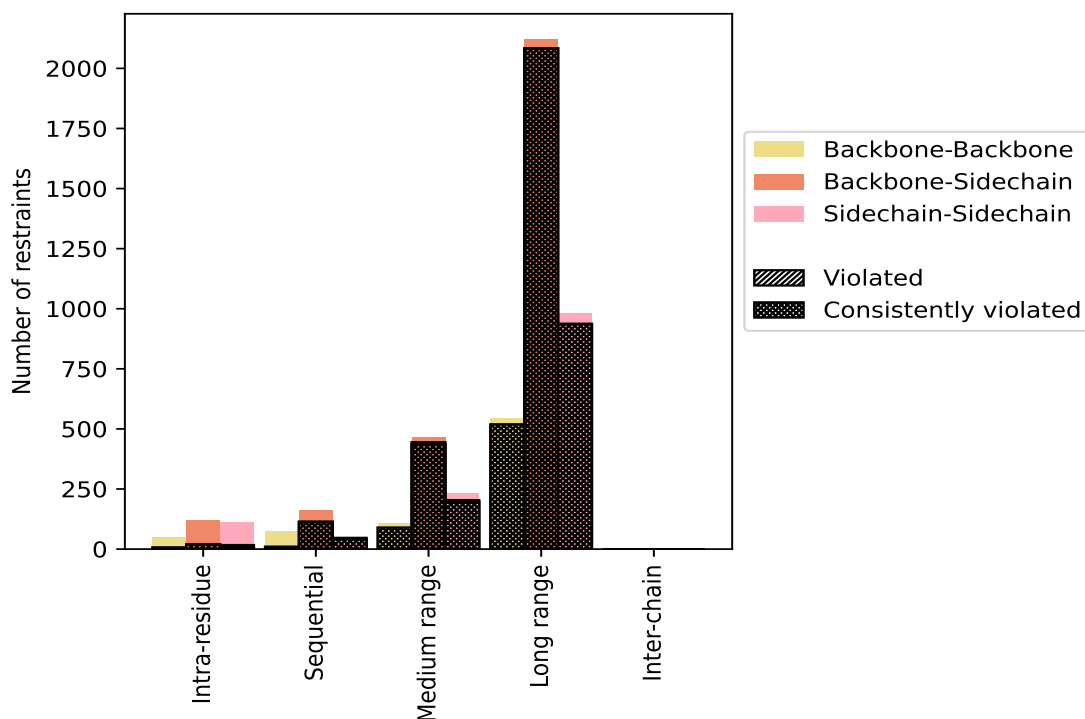
### 9.1 Summary of distance violations i

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

| Restrains type  | Count       | % <sup>1</sup> | Violated <sup>3</sup> |                |                | Consistently Violated <sup>4</sup> |                |                |
|---|-------------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
|   |             |                | Count                 | % <sup>2</sup> | % <sup>1</sup> | Count                              | % <sup>2</sup> | % <sup>1</sup> |
| <b>Intra-residue (<math> i-j =0</math>)</b>                                 | <b>279</b>  | <b>5.6</b>     | <b>45</b>             | <b>16.1</b>    | <b>0.9</b>     | <b>34</b>                          | <b>12.2</b>    | <b>0.7</b>     |
| Backbone-Backbone   | 48          | 1.0            | 7                     | 14.6           | 0.1            | 6                                  | 12.5           | 0.1            |
| Backbone-Sidechain  | 118         | 2.4            | 21                    | 17.8           | 0.4            | 19                                 | 16.1           | 0.4            |
| Sidechain-Sidechain   | 113         | 2.3            | 17                    | 15.0           | 0.3            | 9                                  | 8.0            | 0.2            |
| <b>Sequential (<math> i-j =1</math>)</b>                                    | <b>282</b>  | <b>5.6</b>     | <b>172</b>            | <b>61.0</b>    | <b>3.4</b>     | <b>161</b>                         | <b>57.1</b>    | <b>3.2</b>     |
| Backbone-Backbone   | 75          | 1.5            | 10                    | 13.3           | 0.2            | 9                                  | 12.0           | 0.2            |
| Backbone-Sidechain  | 159         | 3.2            | 115                   | 72.3           | 2.3            | 111                                | 69.8           | 2.2            |
| Sidechain-Sidechain   | 48          | 1.0            | 47                    | 97.9           | 0.9            | 41                                 | 85.4           | 0.8            |
| <b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b> | <b>802</b>  | <b>16.0</b>    | <b>738</b>            | <b>92.0</b>    | <b>14.7</b>    | <b>722</b>                         | <b>90.0</b>    | <b>14.4</b>    |
| Backbone-Backbone   | 107         | 2.1            | 89                    | 83.2           | 1.8            | 89                                 | 83.2           | 1.8            |
| Backbone-Sidechain  | 465         | 9.3            | 445                   | 95.7           | 8.9            | 437                                | 94.0           | 8.7            |
| Sidechain-Sidechain   | 230         | 4.6            | 204                   | 88.7           | 4.1            | 196                                | 85.2           | 3.9            |
| <b>Long range (<math> i-j \geq 5</math>)</b>                                | <b>3644</b> | <b>72.8</b>    | <b>3541</b>           | <b>97.2</b>    | <b>70.7</b>    | <b>3535</b>                        | <b>97.0</b>    | <b>70.6</b>    |
| Backbone-Backbone   | 543         | 10.8           | 519                   | 95.6           | 10.4           | 518                                | 95.4           | 10.3           |
| Backbone-Sidechain  | 2121        | 42.4           | 2084                  | 98.3           | 41.6           | 2082                               | 98.2           | 41.6           |
| Sidechain-Sidechain   | 980         | 19.6           | 938                   | 95.7           | 18.7           | 935                                | 95.4           | 18.7           |
| <b>Inter-chain</b>  | <b>0</b>    | <b>0.0</b>     | <b>0</b>              | <b>0.0</b>     | <b>0.0</b>     | <b>0</b>                           | <b>0.0</b>     | <b>0.0</b>     |
| Backbone-Backbone   | 0           | 0.0            | 0                     | 0.0            | 0.0            | 0                                  | 0.0            | 0.0            |
| Backbone-Sidechain  | 0           | 0.0            | 0                     | 0.0            | 0.0            | 0                                  | 0.0            | 0.0            |
| Sidechain-Sidechain   | 0           | 0.0            | 0                     | 0.0            | 0.0            | 0                                  | 0.0            | 0.0            |
| <b>Hydrogen bond</b>  | <b>0</b>    | <b>0.0</b>     | <b>0</b>              | <b>0.0</b>     | <b>0.0</b>     | <b>0</b>                           | <b>0.0</b>     | <b>0.0</b>     |
| <b>Disulfide bond</b>   | <b>0</b>    | <b>0.0</b>     | <b>0</b>              | <b>0.0</b>     | <b>0.0</b>     | <b>0</b>                           | <b>0.0</b>     | <b>0.0</b>     |
| <b>Total</b>  | <b>5007</b> | <b>100.0</b>   | <b>4496</b>           | <b>89.8</b>    | <b>89.8</b>    | <b>4452</b>                        | <b>88.9</b>    | <b>88.9</b>    |
| Backbone-Backbone   | 773         | 15.4           | 625                   | 80.9           | 12.5           | 622                                | 80.5           | 12.4           |
| Backbone-Sidechain  | 2863        | 57.2           | 2665                  | 93.1           | 53.2           | 2649                               | 92.5           | 52.9           |
| Sidechain-Sidechain   | 1371        | 27.4           | 1206                  | 88.0           | 24.1           | 1181                               | 86.1           | 23.6           |

<sup>1</sup> percentage calculated with respect to the total number of distance restraints, <sup>2</sup> percentage calculated with respect to the number of restraints in a particular restraint category, <sup>3</sup> violated in at least one model, <sup>4</sup> violated in all the models

### 9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfid bonds are counted in their appropriate category on the x-axis

## 9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

| Model ID | Number of violations |                 |                 |                 |                 |       | Mean (Å) | Max (Å) | SD <sup>6</sup> (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
|          | IR <sup>1</sup>      | SQ <sup>2</sup> | MR <sup>3</sup> | LR <sup>4</sup> | IC <sup>5</sup> | Total |          |         |                     |            |
| 1        | 44                   | 170             | 735             | 3539            | 0               | 4488  | 8.81     | 23.55   | 4.67                | 8.34       |
| 2        | 40                   | 172             | 731             | 3539            | 0               | 4482  | 9.17     | 26.32   | 4.85                | 8.67       |
| 3        | 41                   | 168             | 730             | 3540            | 0               | 4479  | 9.13     | 23.86   | 4.76                | 8.73       |
| 4        | 42                   | 171             | 730             | 3538            | 0               | 4481  | 9.27     | 26.62   | 4.95                | 8.78       |
| 5        | 43                   | 170             | 731             | 3540            | 0               | 4484  | 9.07     | 23.93   | 4.73                | 8.64       |
| 6        | 41                   | 170             | 731             | 3540            | 0               | 4482  | 9.09     | 24.24   | 4.74                | 8.68       |
| 7        | 44                   | 169             | 735             | 3539            | 0               | 4487  | 8.99     | 25.36   | 4.8                 | 8.49       |
| 8        | 42                   | 170             | 735             | 3538            | 0               | 4485  | 9.11     | 26.5    | 4.89                | 8.54       |
| 9        | 41                   | 168             | 734             | 3538            | 0               | 4481  | 8.96     | 23.65   | 4.7                 | 8.51       |
| 10       | 40                   | 171             | 729             | 3538            | 0               | 4478  | 9.21     | 25.4    | 4.92                | 8.68       |
| 11       | 40                   | 171             | 736             | 3539            | 0               | 4486  | 8.95     | 23.56   | 4.7                 | 8.48       |

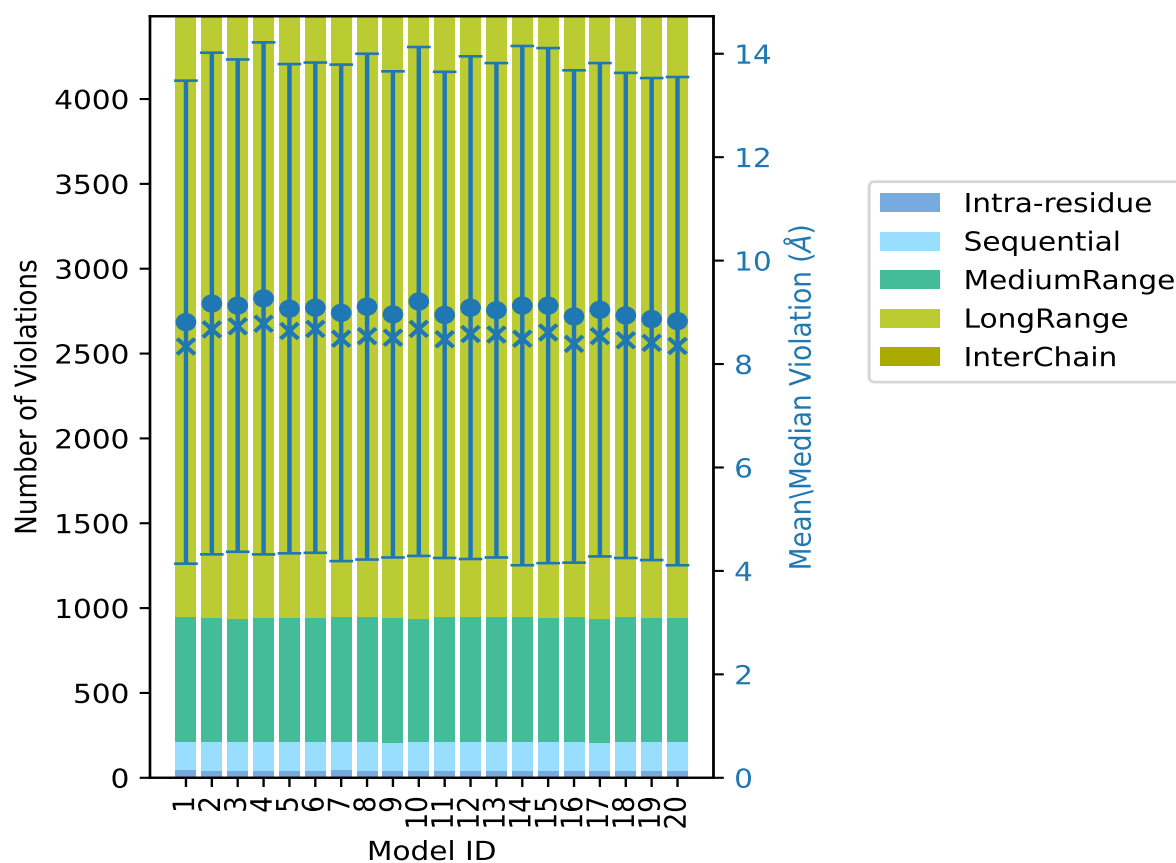
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| Model ID | Number of violations |                 |                 |                 |                 |       | Mean (Å) | Max (Å) | SD <sup>6</sup> (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
|          | IR <sup>1</sup>      | SQ <sup>2</sup> | MR <sup>3</sup> | LR <sup>4</sup> | IC <sup>5</sup> | Total |          |         |                     |            |
| 12       | 44                   | 171             | 734             | 3538            | 0               | 4487  | 9.09     | 24.33   | 4.86                | 8.58       |
| 13       | 42                   | 172             | 734             | 3539            | 0               | 4487  | 9.04     | 24.36   | 4.78                | 8.57       |
| 14       | 42                   | 169             | 736             | 3539            | 0               | 4486  | 9.13     | 28.84   | 5.02                | 8.49       |
| 15       | 40                   | 171             | 734             | 3539            | 0               | 4484  | 9.13     | 27.03   | 4.98                | 8.61       |
| 16       | 42                   | 171             | 735             | 3537            | 0               | 4485  | 8.92     | 23.66   | 4.76                | 8.39       |
| 17       | 38                   | 170             | 731             | 3539            | 0               | 4478  | 9.05     | 23.21   | 4.77                | 8.54       |
| 18       | 42                   | 171             | 735             | 3538            | 0               | 4486  | 8.94     | 24.76   | 4.69                | 8.46       |
| 19       | 39                   | 170             | 735             | 3538            | 0               | 4482  | 8.87     | 23.35   | 4.66                | 8.41       |
| 20       | 42                   | 170             | 733             | 3538            | 0               | 4483  | 8.83     | 23.37   | 4.72                | 8.35       |

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model [\(i\)](#)



The mean(dot), median(x) and the standard deviation are shown in blue with respect to the y axis on the right

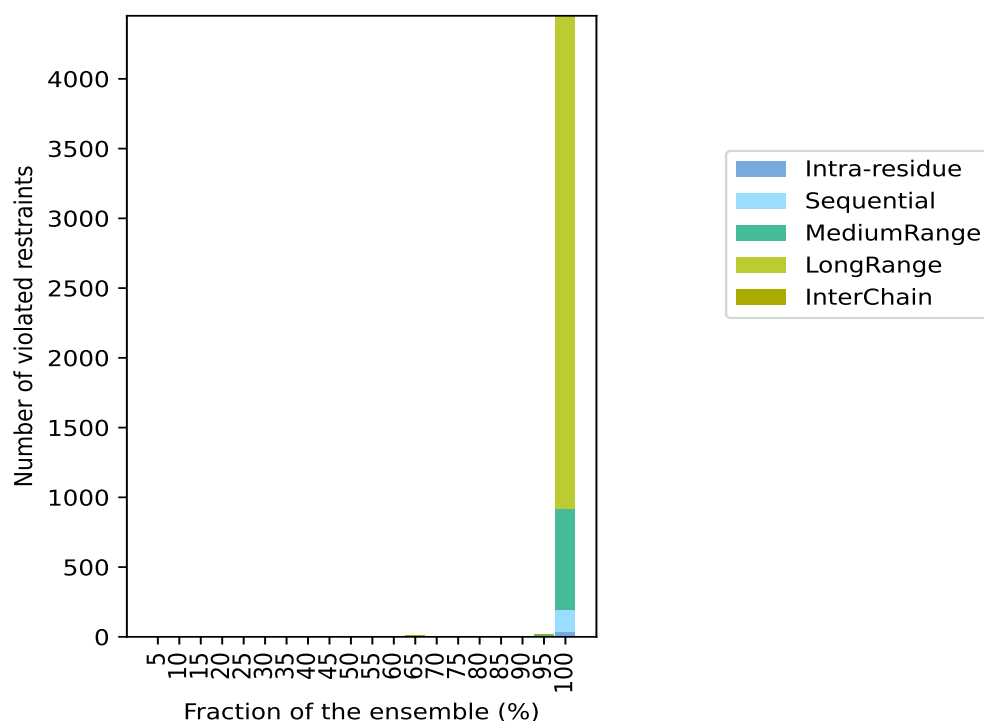
### 9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 511(IR:234, SQ:110, MR:64, LR:103, IC:0) restraints are not violated in the ensemble.

| Number of violated restraints |                 |                 |                 |                 |       | Fraction of the ensemble |       |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-------|--------------------------|-------|
| IR <sup>1</sup>               | SQ <sup>2</sup> | MR <sup>3</sup> | LR <sup>4</sup> | IC <sup>5</sup> | Total | Count <sup>6</sup>       | %     |
| 0                             | 0               | 0               | 1               | 0               | 1     | 1                        | 5.0   |
| 0                             | 0               | 0               | 0               | 0               | 0     | 2                        | 10.0  |
| 0                             | 0               | 1               | 0               | 0               | 1     | 3                        | 15.0  |
| 0                             | 0               | 1               | 0               | 0               | 1     | 4                        | 20.0  |
| 0                             | 0               | 0               | 1               | 0               | 1     | 5                        | 25.0  |
| 0                             | 0               | 0               | 0               | 0               | 0     | 6                        | 30.0  |
| 1                             | 0               | 0               | 0               | 0               | 1     | 7                        | 35.0  |
| 1                             | 0               | 1               | 0               | 0               | 2     | 8                        | 40.0  |
| 0                             | 0               | 0               | 0               | 0               | 0     | 9                        | 45.0  |
| 2                             | 0               | 0               | 0               | 0               | 2     | 10                       | 50.0  |
| 1                             | 0               | 0               | 0               | 0               | 1     | 11                       | 55.0  |
| 0                             | 0               | 0               | 0               | 0               | 0     | 12                       | 60.0  |
| 1                             | 2               | 5               | 1               | 0               | 9     | 13                       | 65.0  |
| 0                             | 1               | 1               | 0               | 0               | 2     | 14                       | 70.0  |
| 0                             | 0               | 0               | 0               | 0               | 0     | 15                       | 75.0  |
| 0                             | 1               | 1               | 0               | 0               | 2     | 16                       | 80.0  |
| 2                             | 2               | 0               | 1               | 0               | 5     | 17                       | 85.0  |
| 1                             | 0               | 0               | 1               | 0               | 2     | 18                       | 90.0  |
| 2                             | 5               | 6               | 1               | 0               | 14    | 19                       | 95.0  |
| 34                            | 161             | 722             | 3535            | 0               | 4452  | 20                       | 100.0 |

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

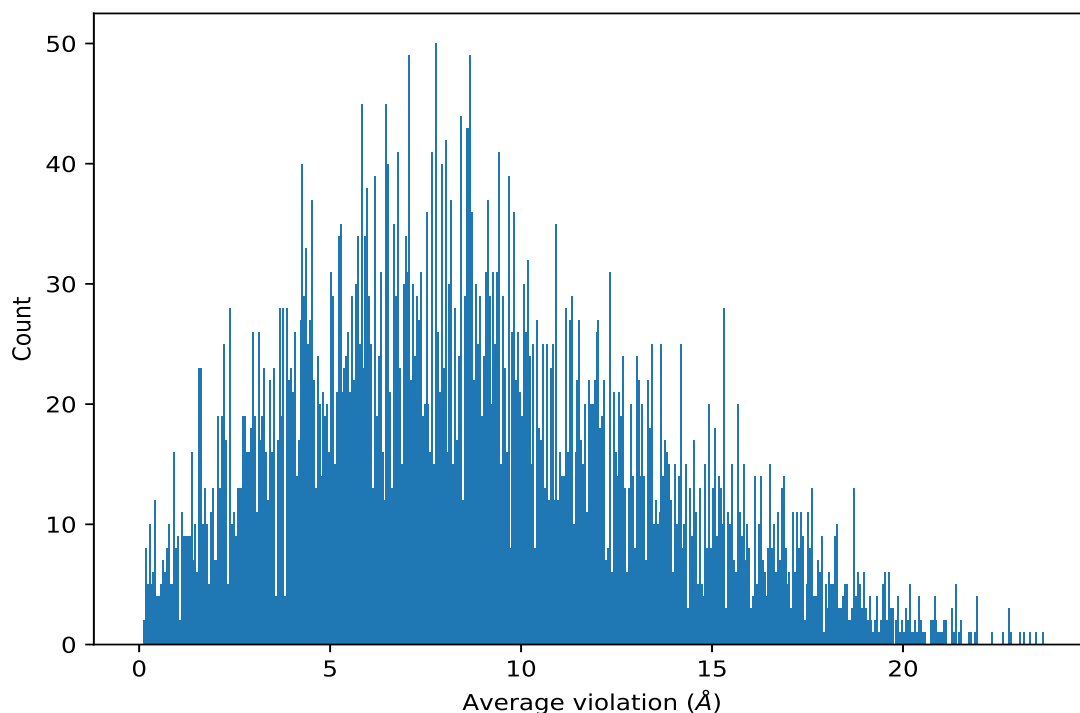
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 9.4 Most violated distance restraints in the ensemble [i](#)

### 9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



#### 9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 20                  | 23.69    | 2.19                | 23.44      |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 20                  | 23.49    | 0.13                | 23.54      |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 20                  | 23.33    | 2.29                | 23.06      |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 20                  | 23.2     | 0.12                | 23.24      |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 20                  | 23.05    | 2.04                | 23.44      |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 20                  | 22.8     | 0.23                | 22.72      |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 20                  | 22.78    | 2.88                | 22.02      |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 20                  | 22.77    | 0.14                | 22.78      |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 20                  | 22.76    | 2.49                | 22.22      |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 20                  | 22.6     | 2.09                | 22.78      |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 20                  | 22.34    | 1.5                 | 22.44      |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 20                  | 21.95    | 0.23                | 22.04      |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 20                  | 21.94    | 2.36                | 21.92      |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 20                  | 21.93    | 0.55                | 22.27      |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 20                  | 21.92    | 0.15                | 21.95      |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 20                  | 21.89    | 0.41                | 21.9       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 20                  | 21.78    | 2.82                | 21.15      |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 20                  | 21.73    | 0.12                | 21.77      |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 20                  | 21.53    | 2.14                | 21.4       |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 20                  | 21.53    | 0.12                | 21.56      |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 20                  | 21.47    | 0.33                | 21.4       |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 20                  | 21.4     | 0.12                | 21.38      |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 20                  | 21.4     | 0.12                | 21.38      |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 20                  | 21.4     | 2.5                 | 21.2       |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 20                  | 21.39    | 3.69                | 20.98      |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 20                  | 21.35    | 0.57                | 21.7       |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 20                  | 21.34    | 0.47                | 21.41      |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 20                  | 21.28    | 0.18                | 21.22      |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 20                  | 21.28    | 0.18                | 21.22      |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 20                  | 21.25    | 0.3                 | 21.32      |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 20                  | 21.12    | 2.5                 | 20.83      |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 20                  | 21.11    | 0.34                | 21.14      |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 20                  | 21.09    | 0.09                | 21.08      |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 20                  | 21.09    | 0.09                | 21.08      |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 20                  | 21.04    | 0.12                | 21.06      |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 20                  | 20.96    | 0.57                | 21.27      |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 20                  | 20.92    | 0.18                | 20.91      |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 20                  | 20.88    | 0.18                | 20.82      |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 20                  | 20.87    | 0.15                | 20.82      |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 20                  | 20.82    | 0.19                | 20.84      |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 20                  | 20.82    | 0.14                | 20.74      |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 20                  | 20.8     | 2.27                | 20.41      |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 20                  | 20.8     | 2.27                | 20.41      |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 20                  | 20.79    | 0.19                | 20.76      |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 20                  | 20.79    | 0.19                | 20.76      |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 20                  | 20.73    | 1.0                 | 20.26      |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 20                  | 20.72    | 0.36                | 20.76      |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 20                  | 20.55    | 0.41                | 20.48      |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 20                  | 20.54    | 2.88                | 20.37      |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 20                  | 20.48    | 0.09                | 20.46      |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 20                  | 20.48    | 0.09                | 20.46      |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 20                  | 20.44    | 0.11                | 20.44      |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 20                  | 20.42    | 0.13                | 20.38      |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 20                  | 20.42    | 0.13                | 20.38      |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 20                  | 20.42    | 1.08                | 19.88      |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 20                  | 20.37    | 0.22                | 20.41      |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 20                  | 20.32    | 3.28                | 19.77      |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 20                  | 20.31    | 1.87                | 20.53      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 20                  | 20.28    | 1.02                | 19.66      |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 20                  | 20.22    | 0.17                | 20.23      |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 20                  | 20.2     | 0.2                 | 20.22      |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 20                  | 20.2     | 2.09                | 20.12      |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 20                  | 20.2     | 2.09                | 20.12      |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 20                  | 20.18    | 0.19                | 20.22      |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 20                  | 20.17    | 0.15                | 20.16      |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 20                  | 20.14    | 0.69                | 20.24      |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 20                  | 20.14    | 0.69                | 20.24      |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 20                  | 20.09    | 1.23                | 19.38      |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 20                  | 20.07    | 2.65                | 19.45      |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 20                  | 20.07    | 3.04                | 19.75      |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 20                  | 20.03    | 0.21                | 20.03      |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 20                  | 19.99    | 0.23                | 20.08      |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 20                  | 19.98    | 0.2                 | 19.89      |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 20                  | 19.95    | 3.51                | 19.59      |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 20                  | 19.88    | 1.12                | 19.34      |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 20                  | 19.88    | 3.2                 | 19.36      |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 20                  | 19.86    | 0.6                 | 20.14      |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 20                  | 19.85    | 0.21                | 19.82      |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 20                  | 19.81    | 0.2                 | 19.88      |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 20                  | 19.81    | 0.38                | 19.82      |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 20                  | 19.74    | 0.18                | 19.7       |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 20                  | 19.74    | 0.18                | 19.7       |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 20                  | 19.73    | 0.77                | 19.55      |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 20                  | 19.68    | 0.22                | 19.69      |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 20                  | 19.67    | 0.31                | 19.6       |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 20                  | 19.66    | 2.85                | 18.87      |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 20                  | 19.65    | 0.99                | 19.16      |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 20                  | 19.62    | 1.5                 | 19.6       |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 20                  | 19.62    | 1.5                 | 19.6       |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 20                  | 19.61    | 1.76                | 19.56      |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 20                  | 19.61    | 0.24                | 19.56      |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 20                  | 19.61    | 0.62                | 19.3       |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 20                  | 19.59    | 0.2                 | 19.59      |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 20                  | 19.59    | 0.55                | 19.87      |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 20                  | 19.54    | 0.13                | 19.58      |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 20                  | 19.53    | 0.16                | 19.52      |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 20                  | 19.53    | 0.16                | 19.52      |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 20                  | 19.52    | 0.72                | 19.62      |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 20                  | 19.52    | 0.72                | 19.62      |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 20                  | 19.52    | 2.52                | 19.48      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 20                  | 19.49    | 2.28                | 18.25      |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 20                  | 19.48    | 0.56                | 19.79      |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 20                  | 19.47    | 0.23                | 19.38      |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 20                  | 19.47    | 0.12                | 19.5       |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 20                  | 19.47    | 0.12                | 19.5       |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 20                  | 19.45    | 0.08                | 19.41      |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 20                  | 19.45    | 0.16                | 19.42      |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 20                  | 19.35    | 0.52                | 19.38      |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 20                  | 19.31    | 0.32                | 19.33      |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 20                  | 19.3     | 0.24                | 19.27      |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 20                  | 19.3     | 0.11                | 19.3       |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 20                  | 19.3     | 0.55                | 19.57      |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 20                  | 19.29    | 0.24                | 19.32      |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 20                  | 19.25    | 0.15                | 19.22      |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 20                  | 19.23    | 0.18                | 19.19      |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 20                  | 19.17    | 0.27                | 19.23      |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 20                  | 19.17    | 0.27                | 19.23      |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 20                  | 19.15    | 0.1                 | 19.17      |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 20                  | 19.15    | 0.1                 | 19.17      |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 20                  | 19.15    | 0.2                 | 19.13      |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 20                  | 19.15    | 0.2                 | 19.13      |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 20                  | 19.06    | 0.33                | 19.04      |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 20                  | 19.05    | 0.12                | 19.1       |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 20                  | 19.02    | 0.9                 | 18.5       |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 20                  | 19.02    | 0.9                 | 18.5       |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 20                  | 19.01    | 0.19                | 18.97      |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 20                  | 18.99    | 2.84                | 18.23      |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 20                  | 18.98    | 0.12                | 19.02      |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 20                  | 18.97    | 0.12                | 18.98      |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 20                  | 18.96    | 0.14                | 19.02      |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 20                  | 18.95    | 3.77                | 18.34      |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 20                  | 18.95    | 0.18                | 18.95      |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 20                  | 18.93    | 1.13                | 19.24      |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 20                  | 18.93    | 1.13                | 19.24      |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 20                  | 18.92    | 0.28                | 19.0       |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 20                  | 18.9     | 0.6                 | 19.22      |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 20                  | 18.9     | 1.81                | 18.14      |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 20                  | 18.9     | 1.81                | 18.14      |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 20                  | 18.88    | 0.1                 | 18.9       |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 20                  | 18.88    | 0.27                | 18.94      |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 20                  | 18.83    | 0.24                | 18.77      |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 20                  | 18.82    | 2.6                 | 18.16      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 20                  | 18.82    | 0.31                | 18.81      |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 20                  | 18.81    | 2.18                | 18.18      |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 20                  | 18.8     | 0.21                | 18.86      |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 20                  | 18.8     | 0.32                | 18.81      |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 20                  | 18.79    | 0.6                 | 19.08      |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 20                  | 18.77    | 0.36                | 18.69      |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 20                  | 18.76    | 0.1                 | 18.8       |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 20                  | 18.76    | 0.1                 | 18.8       |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 20                  | 18.74    | 0.12                | 18.76      |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 20                  | 18.74    | 0.19                | 18.69      |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 20                  | 18.74    | 1.07                | 18.81      |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 20                  | 18.74    | 1.07                | 18.81      |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 20                  | 18.74    | 1.07                | 18.81      |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 20                  | 18.73    | 0.14                | 18.78      |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 20                  | 18.73    | 0.32                | 18.6       |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 20                  | 18.73    | 0.32                | 18.6       |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 20                  | 18.72    | 0.13                | 18.74      |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 20                  | 18.72    | 0.16                | 18.72      |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 20                  | 18.71    | 0.2                 | 18.7       |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 20                  | 18.7     | 0.11                | 18.68      |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 20                  | 18.7     | 0.11                | 18.68      |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 20                  | 18.67    | 0.55                | 18.99      |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 20                  | 18.67    | 0.6                 | 18.95      |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 20                  | 18.66    | 0.12                | 18.7       |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 20                  | 18.62    | 2.6                 | 18.33      |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 20                  | 18.61    | 1.8                 | 17.55      |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 20                  | 18.57    | 0.16                | 18.57      |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 20                  | 18.57    | 0.16                | 18.57      |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 20                  | 18.53    | 1.02                | 17.92      |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 20                  | 18.53    | 1.02                | 17.92      |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 20                  | 18.52    | 1.28                | 17.83      |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 20                  | 18.51    | 0.25                | 18.49      |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 20                  | 18.5     | 0.25                | 18.42      |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 20                  | 18.48    | 1.81                | 18.54      |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 20                  | 18.48    | 1.81                | 18.54      |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 20                  | 18.46    | 0.1                 | 18.44      |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 20                  | 18.45    | 0.29                | 18.55      |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 20                  | 18.45    | 0.34                | 18.4       |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 20                  | 18.44    | 0.93                | 17.9       |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 20                  | 18.44    | 0.93                | 17.9       |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 20                  | 18.42    | 0.13                | 18.42      |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 20                  | 18.42    | 0.13                | 18.42      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 20                  | 18.38    | 3.36                | 17.74      |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 20                  | 18.35    | 0.19                | 18.28      |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 20                  | 18.35    | 0.28                | 18.25      |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 20                  | 18.33    | 0.98                | 17.8       |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 20                  | 18.33    | 0.98                | 17.8       |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 20                  | 18.3     | 0.27                | 18.3       |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 20                  | 18.29    | 0.8                 | 18.55      |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 20                  | 18.29    | 0.8                 | 18.55      |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 20                  | 18.28    | 0.23                | 18.25      |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 20                  | 18.28    | 0.23                | 18.25      |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 20                  | 18.28    | 1.06                | 17.62      |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 20                  | 18.28    | 1.06                | 17.62      |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 20                  | 18.28    | 0.12                | 18.23      |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 20                  | 18.27    | 0.09                | 18.26      |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 20                  | 18.27    | 0.2                 | 18.24      |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 20                  | 18.27    | 0.2                 | 18.24      |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 20                  | 18.24    | 2.59                | 17.0       |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 20                  | 18.23    | 0.44                | 18.12      |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 20                  | 18.23    | 0.25                | 18.29      |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 20                  | 18.22    | 0.18                | 18.18      |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 20                  | 18.22    | 0.18                | 18.18      |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 20                  | 18.21    | 0.12                | 18.25      |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 20                  | 18.21    | 0.12                | 18.25      |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 20                  | 18.2     | 0.1                 | 18.24      |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 20                  | 18.2     | 0.09                | 18.2       |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 20                  | 18.19    | 2.22                | 17.87      |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 20                  | 18.17    | 0.72                | 18.37      |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 20                  | 18.17    | 0.72                | 18.37      |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 20                  | 18.16    | 2.47                | 18.24      |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 20                  | 18.16    | 2.82                | 18.1       |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 20                  | 18.13    | 0.17                | 18.16      |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 20                  | 18.13    | 0.14                | 18.12      |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 20                  | 18.13    | 0.14                | 18.12      |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 20                  | 18.1     | 0.19                | 18.16      |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 20                  | 18.1     | 0.19                | 18.16      |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 20                  | 18.08    | 0.18                | 18.14      |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 20                  | 18.07    | 2.58                | 17.49      |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 20                  | 18.07    | 0.38                | 17.94      |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 20                  | 18.05    | 0.36                | 17.97      |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 20                  | 18.05    | 0.1                 | 18.02      |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 20                  | 18.05    | 0.1                 | 18.02      |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 20                  | 18.01    | 0.11                | 18.0       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 20                  | 18.01    | 0.11                | 18.0       |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H    | 20                  | 18.01    | 0.1                 | 18.05      |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H    | 20                  | 17.98    | 0.18                | 18.04      |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 20                  | 17.97    | 1.26                | 17.98      |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2  | 20                  | 17.96    | 0.77                | 18.2       |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3  | 20                  | 17.96    | 0.77                | 18.2       |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H    | 20                  | 17.95    | 0.2                 | 17.94      |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 20                  | 17.92    | 0.17                | 17.88      |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3  | 20                  | 17.9     | 0.16                | 17.91      |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 20                  | 17.88    | 2.05                | 17.66      |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 20                  | 17.88    | 2.05                | 17.66      |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 20                  | 17.87    | 0.3                 | 17.83      |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA   | 20                  | 17.86    | 0.22                | 17.84      |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 20                  | 17.86    | 0.16                | 17.82      |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 20                  | 17.86    | 0.16                | 17.82      |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 20                  | 17.85    | 0.18                | 17.88      |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 20                  | 17.85    | 0.19                | 17.86      |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA   | 20                  | 17.83    | 0.19                | 17.8       |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA   | 20                  | 17.83    | 0.19                | 17.8       |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 20                  | 17.81    | 0.33                | 17.73      |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 20                  | 17.81    | 0.5                 | 18.03      |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 20                  | 17.8     | 2.66                | 17.77      |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 20                  | 17.8     | 1.57                | 16.7       |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H    | 20                  | 17.79    | 0.26                | 17.76      |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 20                  | 17.79    | 0.12                | 17.83      |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 20                  | 17.79    | 0.12                | 17.83      |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 20                  | 17.77    | 1.07                | 18.08      |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 20                  | 17.77    | 1.07                | 18.08      |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 20                  | 17.77    | 0.11                | 17.77      |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 20                  | 17.76    | 0.2                 | 17.75      |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 20                  | 17.72    | 0.66                | 17.88      |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 20                  | 17.72    | 0.66                | 17.88      |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 20                  | 17.71    | 0.8                 | 17.5       |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 20                  | 17.7     | 0.2                 | 17.68      |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 20                  | 17.69    | 0.14                | 17.74      |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 20                  | 17.69    | 0.53                | 18.01      |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 20                  | 17.69    | 0.17                | 17.7       |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 20                  | 17.67    | 0.35                | 17.6       |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 20                  | 17.65    | 3.67                | 16.95      |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 20                  | 17.65    | 0.61                | 17.69      |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 20                  | 17.64    | 0.38                | 17.67      |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 20                  | 17.64    | 4.12                | 17.1       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 20                  | 17.63    | 0.6                 | 17.96      |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 20                  | 17.63    | 0.34                | 17.66      |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 20                  | 17.63    | 1.07                | 17.51      |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 20                  | 17.63    | 1.07                | 17.51      |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 20                  | 17.63    | 1.07                | 17.51      |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 20                  | 17.63    | 0.13                | 17.69      |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 20                  | 17.63    | 0.13                | 17.69      |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 20                  | 17.62    | 0.14                | 17.63      |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 20                  | 17.62    | 0.22                | 17.7       |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 20                  | 17.58    | 0.91                | 17.1       |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 20                  | 17.58    | 0.91                | 17.1       |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 20                  | 17.57    | 3.06                | 17.26      |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 20                  | 17.57    | 0.19                | 17.56      |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 20                  | 17.57    | 0.17                | 17.58      |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 20                  | 17.56    | 0.6                 | 17.82      |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 20                  | 17.56    | 0.19                | 17.55      |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 20                  | 17.56    | 0.19                | 17.55      |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 20                  | 17.54    | 0.56                | 17.8       |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 20                  | 17.54    | 0.72                | 17.64      |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 20                  | 17.54    | 0.72                | 17.64      |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 20                  | 17.53    | 0.22                | 17.55      |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 20                  | 17.53    | 0.23                | 17.65      |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 20                  | 17.52    | 0.17                | 17.52      |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 20                  | 17.51    | 0.25                | 17.49      |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 20                  | 17.51    | 0.11                | 17.47      |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 20                  | 17.51    | 1.63                | 17.49      |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 20                  | 17.5     | 0.76                | 17.72      |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 20                  | 17.5     | 0.76                | 17.72      |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 20                  | 17.49    | 0.12                | 17.5       |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 20                  | 17.49    | 0.98                | 17.48      |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 20                  | 17.49    | 0.98                | 17.48      |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 20                  | 17.49    | 0.98                | 17.48      |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 20                  | 17.45    | 1.35                | 16.66      |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 20                  | 17.43    | 0.13                | 17.46      |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 20                  | 17.43    | 0.13                | 17.46      |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 20                  | 17.4     | 0.17                | 17.46      |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 20                  | 17.4     | 0.17                | 17.46      |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 20                  | 17.39    | 0.2                 | 17.37      |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 20                  | 17.39    | 3.17                | 16.84      |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 20                  | 17.39    | 2.76                | 16.43      |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 20                  | 17.38    | 0.59                | 17.7       |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 20                  | 17.37    | 0.11                | 17.38      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 20                  | 17.35    | 0.22                | 17.38      |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 20                  | 17.35    | 0.57                | 17.32      |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 20                  | 17.34    | 0.19                | 17.31      |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 20                  | 17.34    | 0.19                | 17.31      |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 20                  | 17.33    | 0.14                | 17.37      |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 20                  | 17.32    | 0.75                | 17.75      |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 20                  | 17.32    | 0.75                | 17.75      |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 20                  | 17.32    | 0.75                | 17.75      |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H   | 20                  | 17.32    | 0.18                | 17.42      |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 20                  | 17.3     | 1.33                | 17.5       |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 20                  | 17.3     | 1.33                | 17.5       |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 20                  | 17.3     | 1.33                | 17.5       |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 20                  | 17.3     | 0.18                | 17.27      |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 20                  | 17.28    | 0.22                | 17.27      |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 20                  | 17.26    | 0.69                | 17.37      |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 20                  | 17.26    | 0.69                | 17.37      |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 20                  | 17.26    | 0.32                | 17.26      |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 20                  | 17.25    | 0.71                | 17.04      |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 20                  | 17.25    | 1.39                | 17.38      |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 20                  | 17.25    | 1.39                | 17.38      |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 20                  | 17.25    | 1.39                | 17.38      |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 20                  | 17.24    | 0.58                | 17.53      |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 20                  | 17.24    | 0.6                 | 17.48      |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 20                  | 17.23    | 0.13                | 17.23      |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 20                  | 17.23    | 0.18                | 17.32      |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 20                  | 17.23    | 0.82                | 17.52      |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 20                  | 17.23    | 0.82                | 17.52      |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 20                  | 17.23    | 0.1                 | 17.22      |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 20                  | 17.22    | 1.86                | 16.05      |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 20                  | 17.21    | 0.14                | 17.23      |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 20                  | 17.2     | 0.94                | 17.08      |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 20                  | 17.2     | 0.94                | 17.08      |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 20                  | 17.19    | 0.34                | 17.28      |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 20                  | 17.19    | 0.97                | 17.09      |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 20                  | 17.19    | 0.97                | 17.09      |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 20                  | 17.19    | 0.97                | 17.09      |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 20                  | 17.19    | 0.23                | 17.24      |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 20                  | 17.16    | 0.17                | 17.12      |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2 | 20                  | 17.15    | 0.11                | 17.16      |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3 | 20                  | 17.15    | 0.11                | 17.16      |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 20                  | 17.15    | 0.9                 | 16.66      |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 20                  | 17.15    | 0.9                 | 16.66      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 20                  | 17.15    | 0.15                | 17.1       |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 20                  | 17.15    | 3.55                | 16.73      |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 20                  | 17.13    | 0.59                | 17.46      |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 20                  | 17.1     | 0.72                | 16.66      |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 20                  | 17.1     | 0.82                | 17.18      |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 20                  | 17.1     | 0.15                | 17.08      |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 20                  | 17.1     | 0.15                | 17.08      |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 20                  | 17.08    | 0.13                | 17.1       |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 20                  | 17.06    | 0.95                | 16.56      |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 20                  | 17.06    | 0.95                | 16.56      |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 20                  | 17.04    | 0.15                | 17.01      |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 20                  | 17.02    | 4.02                | 16.36      |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 20                  | 17.02    | 0.24                | 17.08      |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 20                  | 17.02    | 0.24                | 17.08      |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3 | 20                  | 17.01    | 0.14                | 17.06      |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 20                  | 17.01    | 0.62                | 17.33      |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 20                  | 16.98    | 3.29                | 16.33      |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H   | 20                  | 16.97    | 0.21                | 17.05      |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 20                  | 16.95    | 0.33                | 16.8       |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 20                  | 16.95    | 0.33                | 16.8       |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 20                  | 16.95    | 1.81                | 16.66      |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 20                  | 16.94    | 0.15                | 16.93      |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 20                  | 16.93    | 1.24                | 17.21      |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 20                  | 16.93    | 1.24                | 17.21      |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 20                  | 16.92    | 0.15                | 16.92      |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 20                  | 16.92    | 0.15                | 16.92      |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 20                  | 16.92    | 0.16                | 16.96      |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 20                  | 16.92    | 0.09                | 16.88      |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 20                  | 16.92    | 0.29                | 16.88      |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 20                  | 16.9     | 0.32                | 16.88      |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 20                  | 16.9     | 0.15                | 16.91      |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 20                  | 16.9     | 0.14                | 16.91      |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 20                  | 16.9     | 0.14                | 16.91      |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 20                  | 16.89    | 0.26                | 16.87      |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 20                  | 16.88    | 0.71                | 17.22      |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 20                  | 16.88    | 0.71                | 17.22      |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 20                  | 16.88    | 0.71                | 17.22      |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 20                  | 16.87    | 0.33                | 16.8       |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 20                  | 16.87    | 0.68                | 16.82      |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 20                  | 16.87    | 0.12                | 16.86      |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 20                  | 16.87    | 0.12                | 16.86      |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 20                  | 16.87    | 0.78                | 16.91      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 20                  | 16.86    | 0.22                | 16.82      |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 20                  | 16.83    | 0.66                | 17.01      |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 20                  | 16.83    | 0.66                | 17.01      |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 20                  | 16.83    | 2.99                | 16.69      |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 20                  | 16.83    | 0.82                | 16.88      |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 20                  | 16.83    | 0.82                | 16.88      |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 20                  | 16.83    | 0.14                | 16.79      |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 20                  | 16.83    | 0.79                | 16.87      |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 20                  | 16.82    | 2.01                | 15.69      |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 20                  | 16.82    | 0.46                | 16.62      |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 20                  | 16.82    | 0.17                | 16.83      |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 20                  | 16.82    | 0.17                | 16.83      |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 20                  | 16.81    | 0.89                | 16.85      |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 20                  | 16.81    | 0.89                | 16.85      |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 20                  | 16.79    | 0.16                | 16.77      |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 20                  | 16.78    | 0.39                | 16.84      |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 20                  | 16.78    | 0.26                | 16.76      |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 20                  | 16.77    | 0.16                | 16.76      |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 20                  | 16.76    | 0.75                | 16.82      |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 20                  | 16.76    | 0.75                | 16.82      |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 20                  | 16.75    | 0.32                | 16.86      |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 20                  | 16.74    | 0.21                | 16.81      |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 20                  | 16.74    | 1.11                | 16.73      |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 20                  | 16.74    | 1.11                | 16.73      |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 20                  | 16.74    | 0.55                | 17.06      |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 20                  | 16.73    | 0.22                | 16.84      |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 20                  | 16.73    | 0.2                 | 16.7       |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 20                  | 16.73    | 0.97                | 16.84      |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 20                  | 16.73    | 0.91                | 16.68      |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 20                  | 16.71    | 0.89                | 16.26      |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 20                  | 16.71    | 0.89                | 16.26      |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 20                  | 16.7     | 2.46                | 16.52      |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 20                  | 16.68    | 1.35                | 15.85      |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 20                  | 16.68    | 0.15                | 16.74      |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 20                  | 16.68    | 1.88                | 16.64      |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 20                  | 16.68    | 0.21                | 16.76      |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 20                  | 16.68    | 0.11                | 16.7       |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 20                  | 16.66    | 0.17                | 16.7       |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 20                  | 16.65    | 0.21                | 16.62      |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 20                  | 16.65    | 0.77                | 17.11      |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 20                  | 16.65    | 0.77                | 17.11      |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 20                  | 16.65    | 0.77                | 17.11      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 20                  | 16.62    | 0.12                | 16.66      |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 20                  | 16.62    | 0.12                | 16.66      |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 20                  | 16.61    | 0.15                | 16.68      |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 20                  | 16.61    | 0.15                | 16.68      |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 20                  | 16.61    | 3.28                | 16.26      |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 20                  | 16.6     | 0.16                | 16.62      |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 20                  | 16.59    | 0.21                | 16.56      |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 20                  | 16.59    | 0.79                | 16.77      |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 20                  | 16.59    | 0.79                | 16.77      |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 20                  | 16.58    | 0.61                | 16.81      |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 20                  | 16.58    | 0.11                | 16.6       |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 20                  | 16.56    | 0.25                | 16.64      |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 20                  | 16.55    | 1.96                | 16.53      |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 20                  | 16.55    | 1.96                | 16.53      |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 20                  | 16.54    | 0.95                | 16.04      |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 20                  | 16.54    | 0.95                | 16.04      |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 20                  | 16.54    | 0.26                | 16.61      |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 20                  | 16.54    | 0.54                | 16.41      |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 20                  | 16.54    | 0.87                | 16.08      |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 20                  | 16.54    | 0.87                | 16.08      |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 20                  | 16.53    | 0.38                | 16.46      |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 20                  | 16.53    | 0.26                | 16.46      |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 20                  | 16.53    | 0.26                | 16.46      |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 20                  | 16.53    | 2.34                | 16.72      |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 20                  | 16.52    | 0.19                | 16.5       |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 20                  | 16.52    | 0.19                | 16.5       |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 20                  | 16.52    | 0.67                | 16.68      |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 20                  | 16.52    | 0.67                | 16.68      |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 20                  | 16.51    | 2.8                 | 16.37      |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 20                  | 16.49    | 0.88                | 16.37      |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 20                  | 16.49    | 0.88                | 16.37      |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 20                  | 16.49    | 0.13                | 16.5       |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 20                  | 16.48    | 0.24                | 16.56      |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 20                  | 16.48    | 0.24                | 16.56      |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 20                  | 16.47    | 0.22                | 16.43      |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 20                  | 16.47    | 0.13                | 16.48      |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 20                  | 16.45    | 0.15                | 16.4       |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 20                  | 16.43    | 0.3                 | 16.28      |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 20                  | 16.42    | 0.76                | 16.58      |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 20                  | 16.42    | 0.76                | 16.58      |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 20                  | 16.41    | 0.2                 | 16.42      |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 20                  | 16.4     | 0.17                | 16.44      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 20                  | 16.4     | 2.05                | 16.22      |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 20                  | 16.39    | 3.05                | 15.55      |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 20                  | 16.37    | 0.69                | 16.39      |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 20                  | 16.36    | 1.97                | 15.28      |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 20                  | 16.35    | 0.4                 | 16.42      |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 20                  | 16.34    | 0.1                 | 16.3       |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 20                  | 16.34    | 0.1                 | 16.3       |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 20                  | 16.33    | 0.48                | 16.5       |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 20                  | 16.32    | 0.42                | 16.16      |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 20                  | 16.32    | 2.11                | 16.33      |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 20                  | 16.32    | 0.28                | 16.31      |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 20                  | 16.31    | 1.52                | 16.75      |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 20                  | 16.29    | 1.44                | 16.36      |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 20                  | 16.29    | 1.44                | 16.36      |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 20                  | 16.29    | 1.44                | 16.36      |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 20                  | 16.29    | 1.06                | 16.78      |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 20                  | 16.29    | 1.06                | 16.78      |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 20                  | 16.29    | 1.06                | 16.78      |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 20                  | 16.29    | 1.61                | 16.55      |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 20                  | 16.29    | 1.61                | 16.55      |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 20                  | 16.28    | 0.22                | 16.31      |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 20                  | 16.28    | 0.2                 | 16.27      |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 20                  | 16.27    | 0.39                | 16.15      |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 20                  | 16.26    | 0.17                | 16.18      |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 20                  | 16.25    | 0.15                | 16.2       |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 20                  | 16.25    | 1.02                | 15.6       |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 20                  | 16.24    | 0.15                | 16.25      |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 20                  | 16.24    | 0.51                | 16.08      |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 20                  | 16.22    | 0.22                | 16.35      |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 20                  | 16.22    | 1.25                | 16.42      |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 20                  | 16.22    | 1.09                | 15.92      |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 20                  | 16.22    | 1.09                | 15.92      |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 20                  | 16.22    | 1.09                | 15.92      |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 20                  | 16.21    | 0.11                | 16.2       |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 20                  | 16.2     | 0.17                | 16.28      |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 20                  | 16.2     | 0.19                | 16.27      |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 20                  | 16.17    | 0.9                 | 15.64      |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 20                  | 16.17    | 0.9                 | 15.64      |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 20                  | 16.16    | 0.12                | 16.11      |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 20                  | 16.16    | 1.37                | 16.36      |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 20                  | 16.16    | 1.37                | 16.36      |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 20                  | 16.14    | 0.78                | 16.45      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 20                  | 16.14    | 0.78                | 16.45      |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 20                  | 16.14    | 0.78                | 16.45      |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 20                  | 16.13    | 1.09                | 16.7       |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 20                  | 16.13    | 1.09                | 16.7       |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 20                  | 16.13    | 1.09                | 16.7       |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 20                  | 16.13    | 0.28                | 16.22      |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 20                  | 16.12    | 0.95                | 16.62      |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 20                  | 16.11    | 0.4                 | 16.06      |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 20                  | 16.11    | 1.01                | 15.71      |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 20                  | 16.11    | 1.01                | 15.71      |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 20                  | 16.11    | 1.01                | 15.71      |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 20                  | 16.1     | 0.29                | 16.02      |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 20                  | 16.1     | 0.18                | 16.1       |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 20                  | 16.08    | 1.37                | 15.36      |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 20                  | 16.06    | 0.96                | 16.25      |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 20                  | 16.06    | 0.96                | 16.25      |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 20                  | 16.06    | 0.96                | 16.25      |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 20                  | 16.04    | 0.1                 | 16.03      |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 20                  | 16.03    | 0.63                | 16.0       |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 20                  | 16.02    | 2.2                 | 15.82      |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 20                  | 15.97    | 0.17                | 15.99      |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 20                  | 15.96    | 0.28                | 15.9       |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 20                  | 15.96    | 0.82                | 15.52      |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 20                  | 15.96    | 0.82                | 15.52      |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 20                  | 15.96    | 0.95                | 16.24      |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 20                  | 15.96    | 0.95                | 16.24      |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 20                  | 15.96    | 0.67                | 16.07      |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 20                  | 15.96    | 0.67                | 16.07      |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 20                  | 15.95    | 0.53                | 16.12      |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 20                  | 15.94    | 1.01                | 15.35      |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 20                  | 15.94    | 1.01                | 15.35      |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 20                  | 15.94    | 1.35                | 16.45      |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 20                  | 15.94    | 0.28                | 16.0       |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 20                  | 15.92    | 0.18                | 15.94      |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 20                  | 15.9     | 1.64                | 14.74      |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 20                  | 15.9     | 0.89                | 16.36      |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 20                  | 15.9     | 0.89                | 16.36      |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 20                  | 15.9     | 0.89                | 16.36      |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 20                  | 15.89    | 1.46                | 16.24      |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 20                  | 15.89    | 1.05                | 15.84      |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 20                  | 15.89    | 1.05                | 15.84      |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 20                  | 15.88    | 0.26                | 15.9       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 20                  | 15.86    | 1.28                | 15.12      |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2 | 20                  | 15.86    | 0.13                | 15.9       |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3 | 20                  | 15.86    | 0.13                | 15.9       |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 20                  | 15.85    | 4.37                | 15.26      |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 20                  | 15.85    | 0.17                | 15.86      |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 20                  | 15.85    | 0.17                | 15.86      |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H   | 20                  | 15.85    | 0.35                | 15.87      |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 20                  | 15.84    | 2.45                | 15.56      |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1 | 20                  | 15.84    | 0.43                | 15.85      |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2 | 20                  | 15.84    | 0.43                | 15.85      |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 20                  | 15.83    | 3.88                | 15.04      |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 20                  | 15.83    | 0.09                | 15.89      |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 20                  | 15.83    | 2.05                | 15.57      |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 20                  | 15.82    | 1.02                | 15.76      |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 20                  | 15.82    | 1.02                | 15.76      |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 20                  | 15.82    | 2.26                | 16.6       |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H   | 20                  | 15.8     | 0.17                | 15.79      |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 20                  | 15.8     | 0.17                | 15.79      |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 20                  | 15.79    | 0.86                | 15.77      |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 20                  | 15.79    | 0.86                | 15.77      |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 20                  | 15.78    | 0.11                | 15.76      |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 20                  | 15.78    | 0.11                | 15.76      |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 20                  | 15.77    | 0.73                | 15.91      |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 20                  | 15.76    | 0.35                | 15.72      |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 20                  | 15.76    | 1.66                | 15.69      |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 20                  | 15.76    | 0.36                | 15.79      |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H   | 20                  | 15.75    | 0.09                | 15.74      |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 20                  | 15.74    | 0.77                | 15.44      |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 20                  | 15.74    | 0.77                | 15.44      |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2 | 20                  | 15.74    | 0.79                | 15.37      |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3 | 20                  | 15.74    | 0.79                | 15.37      |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 20                  | 15.73    | 0.54                | 15.64      |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 20                  | 15.73    | 0.54                | 15.64      |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 20                  | 15.73    | 0.39                | 15.86      |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 20                  | 15.71    | 1.11                | 15.96      |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 20                  | 15.71    | 1.11                | 15.96      |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 20                  | 15.71    | 1.11                | 15.96      |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 20                  | 15.71    | 0.15                | 15.68      |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 20                  | 15.7     | 0.14                | 15.7       |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 20                  | 15.7     | 0.1                 | 15.67      |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 20                  | 15.69    | 0.87                | 16.1       |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 20                  | 15.69    | 0.87                | 16.1       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 20                  | 15.68    | 0.69                | 15.65      |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2 | 20                  | 15.68    | 1.01                | 16.06      |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3 | 20                  | 15.68    | 1.01                | 16.06      |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 20                  | 15.67    | 0.72                | 15.64      |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 20                  | 15.67    | 0.15                | 15.7       |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 20                  | 15.67    | 0.15                | 15.7       |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 20                  | 15.67    | 0.15                | 15.7       |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2 | 20                  | 15.67    | 0.75                | 15.75      |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3 | 20                  | 15.67    | 0.75                | 15.75      |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 20                  | 15.67    | 1.33                | 16.0       |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 20                  | 15.67    | 1.33                | 16.0       |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 20                  | 15.66    | 0.67                | 15.76      |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 20                  | 15.66    | 0.67                | 15.76      |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 20                  | 15.65    | 0.24                | 15.74      |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 20                  | 15.65    | 0.24                | 15.74      |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 20                  | 15.65    | 0.33                | 15.7       |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 20                  | 15.63    | 2.44                | 15.22      |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 20                  | 15.63    | 0.41                | 15.54      |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 20                  | 15.63    | 0.21                | 15.57      |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 20                  | 15.62    | 0.63                | 15.8       |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 20                  | 15.62    | 0.63                | 15.8       |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 20                  | 15.62    | 0.23                | 15.58      |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 20                  | 15.6     | 0.21                | 15.51      |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 20                  | 15.59    | 0.4                 | 15.66      |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3 | 20                  | 15.58    | 0.79                | 15.42      |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 20                  | 15.56    | 0.16                | 15.59      |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 20                  | 15.56    | 1.97                | 15.45      |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H   | 20                  | 15.55    | 0.27                | 15.68      |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 20                  | 15.55    | 0.38                | 15.46      |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 20                  | 15.54    | 0.17                | 15.53      |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 20                  | 15.54    | 1.5                 | 15.49      |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 20                  | 15.54    | 1.5                 | 15.49      |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 20                  | 15.53    | 1.86                | 14.49      |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 20                  | 15.53    | 0.67                | 15.47      |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 20                  | 15.53    | 2.32                | 16.23      |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 20                  | 15.53    | 0.73                | 15.52      |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 20                  | 15.53    | 0.27                | 15.61      |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 20                  | 15.52    | 0.85                | 15.75      |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 20                  | 15.52    | 0.85                | 15.75      |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 20                  | 15.52    | 1.91                | 15.4       |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 20                  | 15.51    | 1.91                | 16.06      |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2 | 20                  | 15.5     | 0.84                | 15.4       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 20                  | 15.5     | 0.42                | 15.38      |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 20                  | 15.5     | 0.36                | 15.42      |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 20                  | 15.49    | 0.18                | 15.46      |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 20                  | 15.49    | 0.24                | 15.41      |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 20                  | 15.49    | 0.93                | 15.01      |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 20                  | 15.49    | 0.93                | 15.01      |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 20                  | 15.49    | 0.23                | 15.51      |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 20                  | 15.48    | 1.04                | 15.0       |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 20                  | 15.48    | 1.04                | 15.0       |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 20                  | 15.48    | 0.36                | 15.42      |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 20                  | 15.48    | 0.19                | 15.56      |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 20                  | 15.46    | 0.19                | 15.4       |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 20                  | 15.44    | 0.14                | 15.48      |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 20                  | 15.43    | 0.1                 | 15.46      |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 20                  | 15.43    | 0.1                 | 15.46      |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 20                  | 15.42    | 0.13                | 15.43      |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 20                  | 15.42    | 0.13                | 15.43      |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 20                  | 15.41    | 0.86                | 14.96      |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 20                  | 15.41    | 0.86                | 14.96      |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 20                  | 15.4     | 0.22                | 15.4       |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 20                  | 15.4     | 0.22                | 15.4       |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 20                  | 15.4     | 0.31                | 15.34      |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 20                  | 15.4     | 0.31                | 15.34      |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 20                  | 15.38    | 0.93                | 15.39      |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 20                  | 15.36    | 1.02                | 15.58      |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 20                  | 15.36    | 1.02                | 15.58      |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 20                  | 15.35    | 1.79                | 14.23      |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 20                  | 15.35    | 1.13                | 15.57      |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 20                  | 15.35    | 0.85                | 15.54      |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 20                  | 15.35    | 0.85                | 15.54      |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 20                  | 15.35    | 0.85                | 15.54      |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 20                  | 15.35    | 0.09                | 15.34      |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 20                  | 15.35    | 0.09                | 15.34      |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 20                  | 15.34    | 0.75                | 15.51      |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 20                  | 15.34    | 0.75                | 15.51      |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 20                  | 15.34    | 0.92                | 14.84      |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 20                  | 15.34    | 0.92                | 14.84      |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 20                  | 15.34    | 1.4                 | 15.92      |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 20                  | 15.33    | 1.54                | 14.37      |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 20                  | 15.32    | 0.91                | 15.96      |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 20                  | 15.32    | 0.91                | 15.96      |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 20                  | 15.32    | 0.91                | 15.96      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 20                  | 15.32    | 0.27                | 15.26      |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 20                  | 15.32    | 0.27                | 15.26      |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 20                  | 15.32    | 0.17                | 15.31      |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 20                  | 15.32    | 0.17                | 15.31      |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 20                  | 15.32    | 0.54                | 15.59      |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 20                  | 15.31    | 1.35                | 15.52      |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 20                  | 15.31    | 1.35                | 15.52      |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 20                  | 15.31    | 1.33                | 15.7       |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 20                  | 15.31    | 1.33                | 15.7       |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 20                  | 15.3     | 0.69                | 15.45      |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 20                  | 15.3     | 1.02                | 14.77      |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 20                  | 15.3     | 1.02                | 14.77      |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 20                  | 15.29    | 0.16                | 15.28      |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 20                  | 15.28    | 0.88                | 15.25      |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 20                  | 15.28    | 0.88                | 15.25      |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 20                  | 15.28    | 0.19                | 15.26      |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 20                  | 15.28    | 0.19                | 15.26      |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 20                  | 15.28    | 0.13                | 15.33      |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 20                  | 15.26    | 1.21                | 15.76      |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 20                  | 15.26    | 1.21                | 15.76      |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 20                  | 15.26    | 0.82                | 14.71      |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 20                  | 15.25    | 1.03                | 15.17      |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 20                  | 15.24    | 0.28                | 15.24      |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 20                  | 15.23    | 0.11                | 15.24      |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 20                  | 15.23    | 1.14                | 15.47      |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 20                  | 15.23    | 1.14                | 15.47      |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 20                  | 15.23    | 1.14                | 15.47      |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 20                  | 15.22    | 0.2                 | 15.25      |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 20                  | 15.22    | 0.2                 | 15.25      |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 20                  | 15.22    | 0.95                | 15.24      |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 20                  | 15.21    | 0.79                | 15.34      |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 20                  | 15.21    | 0.79                | 15.34      |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 20                  | 15.21    | 1.2                 | 15.02      |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 20                  | 15.21    | 1.2                 | 15.02      |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 20                  | 15.21    | 0.57                | 15.48      |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 20                  | 15.2     | 0.56                | 15.51      |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 20                  | 15.18    | 0.1                 | 15.2       |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 20                  | 15.18    | 0.1                 | 15.2       |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 20                  | 15.18    | 0.82                | 15.39      |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 20                  | 15.18    | 2.02                | 15.42      |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 20                  | 15.16    | 0.09                | 15.14      |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 20                  | 15.16    | 0.17                | 15.12      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3 | 20                  | 15.16    | 0.17                | 15.12      |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 20                  | 15.16    | 0.54                | 15.17      |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3 | 20                  | 15.16    | 0.39                | 15.06      |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 20                  | 15.16    | 0.7                 | 15.02      |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 20                  | 15.16    | 0.45                | 15.05      |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 20                  | 15.15    | 2.56                | 13.89      |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 20                  | 15.15    | 0.27                | 15.22      |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 20                  | 15.14    | 2.09                | 13.98      |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA  | 20                  | 15.14    | 0.23                | 15.12      |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2 | 20                  | 15.13    | 1.01                | 14.6       |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3 | 20                  | 15.13    | 1.01                | 14.6       |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3 | 20                  | 15.13    | 0.29                | 15.07      |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 20                  | 15.13    | 0.83                | 15.64      |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 20                  | 15.13    | 0.83                | 15.64      |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 20                  | 15.13    | 0.83                | 15.64      |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 20                  | 15.11    | 0.18                | 15.15      |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 20                  | 15.1     | 0.23                | 15.07      |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 20                  | 15.1     | 0.23                | 15.07      |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 20                  | 15.1     | 0.14                | 15.1       |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 20                  | 15.1     | 0.14                | 15.1       |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 20                  | 15.1     | 0.53                | 15.42      |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2 | 20                  | 15.08    | 0.21                | 15.08      |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3 | 20                  | 15.08    | 0.21                | 15.08      |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 20                  | 15.08    | 0.48                | 14.98      |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 20                  | 15.08    | 0.11                | 15.05      |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 20                  | 15.08    | 0.11                | 15.05      |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 20                  | 15.07    | 1.06                | 15.34      |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 20                  | 15.07    | 1.06                | 15.34      |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 20                  | 15.07    | 1.06                | 15.34      |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 20                  | 15.05    | 0.33                | 14.9       |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 20                  | 15.05    | 0.33                | 14.9       |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 20                  | 15.05    | 0.2                 | 15.0       |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 20                  | 15.05    | 0.14                | 15.02      |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 20                  | 15.05    | 0.14                | 15.02      |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 20                  | 15.04    | 1.03                | 15.34      |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 20                  | 15.04    | 0.2                 | 15.02      |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 20                  | 15.04    | 1.13                | 15.1       |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG  | 20                  | 15.03    | 0.38                | 14.95      |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 20                  | 15.03    | 3.69                | 14.48      |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 20                  | 15.02    | 0.15                | 15.02      |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 20                  | 15.02    | 0.07                | 15.02      |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 20                  | 15.02    | 0.07                | 15.02      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 20                  | 15.0     | 0.22                | 14.98      |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 20                  | 15.0     | 0.82                | 15.27      |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 20                  | 15.0     | 0.82                | 15.27      |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 20                  | 15.0     | 0.98                | 15.08      |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 20                  | 15.0     | 0.98                | 15.08      |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 20                  | 14.98    | 2.57                | 13.88      |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 20                  | 14.97    | 0.87                | 14.59      |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 20                  | 14.97    | 0.87                | 14.59      |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 20                  | 14.97    | 0.58                | 14.86      |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 20                  | 14.96    | 0.14                | 14.96      |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 20                  | 14.96    | 4.17                | 14.38      |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 20                  | 14.96    | 2.86                | 14.21      |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 20                  | 14.96    | 0.15                | 14.93      |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 20                  | 14.95    | 1.42                | 15.26      |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 20                  | 14.95    | 0.58                | 14.96      |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 20                  | 14.95    | 0.58                | 14.96      |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 20                  | 14.95    | 0.25                | 15.06      |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 20                  | 14.94    | 0.24                | 15.02      |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 20                  | 14.94    | 0.14                | 14.92      |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 20                  | 14.93    | 0.2                 | 15.01      |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 20                  | 14.93    | 0.95                | 15.26      |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 20                  | 14.93    | 0.95                | 15.26      |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 20                  | 14.93    | 0.13                | 14.88      |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 20                  | 14.93    | 0.12                | 14.91      |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 20                  | 14.93    | 0.12                | 14.91      |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 20                  | 14.9     | 1.04                | 15.18      |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 20                  | 14.9     | 1.04                | 15.18      |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 20                  | 14.9     | 1.11                | 15.64      |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 20                  | 14.9     | 1.11                | 15.64      |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 20                  | 14.9     | 1.11                | 15.64      |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 20                  | 14.9     | 0.31                | 14.91      |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 20                  | 14.9     | 0.96                | 14.32      |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 20                  | 14.9     | 0.96                | 14.32      |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 20                  | 14.89    | 0.22                | 14.93      |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 20                  | 14.88    | 1.06                | 14.25      |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 20                  | 14.88    | 1.06                | 14.25      |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 20                  | 14.88    | 1.64                | 14.52      |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 20                  | 14.88    | 1.64                | 14.52      |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 20                  | 14.88    | 0.13                | 14.87      |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 20                  | 14.87    | 0.17                | 14.84      |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 20                  | 14.87    | 0.76                | 15.04      |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 20                  | 14.85    | 0.51                | 14.93      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 20                  | 14.85    | 0.51                | 14.93      |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 20                  | 14.85    | 0.71                | 15.25      |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 20                  | 14.85    | 0.71                | 15.25      |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 20                  | 14.85    | 0.71                | 15.25      |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 20                  | 14.85    | 0.67                | 14.68      |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 20                  | 14.84    | 1.28                | 14.9       |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 20                  | 14.83    | 0.18                | 14.88      |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 20                  | 14.81    | 0.24                | 14.73      |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 20                  | 14.8     | 0.26                | 14.92      |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 20                  | 14.79    | 2.28                | 14.39      |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 20                  | 14.78    | 0.2                 | 14.89      |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 20                  | 14.78    | 0.68                | 14.66      |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 20                  | 14.77    | 0.15                | 14.72      |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 20                  | 14.74    | 0.09                | 14.74      |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 20                  | 14.74    | 0.63                | 14.36      |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 20                  | 14.73    | 0.23                | 14.68      |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 20                  | 14.72    | 2.84                | 14.06      |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 20                  | 14.72    | 0.23                | 14.74      |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 20                  | 14.7     | 1.25                | 14.9       |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 20                  | 14.7     | 1.25                | 14.9       |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 20                  | 14.69    | 0.21                | 14.62      |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 20                  | 14.69    | 0.21                | 14.62      |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 20                  | 14.66    | 0.18                | 14.67      |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 20                  | 14.66    | 1.55                | 13.54      |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 20                  | 14.66    | 0.19                | 14.65      |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 20                  | 14.66    | 2.34                | 15.73      |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 20                  | 14.65    | 0.13                | 14.69      |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 20                  | 14.65    | 1.5                 | 14.68      |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 20                  | 14.65    | 1.5                 | 14.68      |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 20                  | 14.65    | 1.99                | 14.98      |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 20                  | 14.65    | 1.99                | 14.98      |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 20                  | 14.64    | 0.28                | 14.62      |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 20                  | 14.62    | 0.18                | 14.66      |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 20                  | 14.62    | 1.97                | 14.02      |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 20                  | 14.62    | 1.97                | 14.02      |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 20                  | 14.61    | 0.15                | 14.63      |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 20                  | 14.6     | 0.27                | 14.68      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 20                  | 14.6     | 0.27                | 14.68      |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 20                  | 14.59    | 0.45                | 14.57      |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 20                  | 14.59    | 0.16                | 14.54      |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 20                  | 14.59    | 0.16                | 14.54      |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 20                  | 14.58    | 2.28                | 15.4       |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 20                  | 14.58    | 1.15                | 14.91      |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 20                  | 14.58    | 1.67                | 13.47      |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 20                  | 14.56    | 0.28                | 14.48      |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 20                  | 14.55    | 0.91                | 14.03      |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 20                  | 14.55    | 0.91                | 14.03      |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 20                  | 14.54    | 0.18                | 14.6       |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 20                  | 14.54    | 0.22                | 14.58      |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 20                  | 14.54    | 1.06                | 14.79      |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 20                  | 14.54    | 0.7                 | 14.61      |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 20                  | 14.54    | 0.7                 | 14.61      |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 20                  | 14.54    | 0.7                 | 14.61      |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 20                  | 14.54    | 0.7                 | 14.61      |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 20                  | 14.53    | 0.11                | 14.52      |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 20                  | 14.53    | 0.41                | 14.46      |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 20                  | 14.53    | 0.23                | 14.59      |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 20                  | 14.52    | 0.21                | 14.63      |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 20                  | 14.52    | 0.99                | 14.02      |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 20                  | 14.52    | 0.99                | 14.02      |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 20                  | 14.52    | 0.91                | 14.46      |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 20                  | 14.5     | 0.8                 | 14.41      |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 20                  | 14.5     | 0.8                 | 14.41      |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 20                  | 14.5     | 0.56                | 14.31      |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 20                  | 14.49    | 0.91                | 14.16      |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 20                  | 14.49    | 0.13                | 14.49      |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 20                  | 14.48    | 0.28                | 14.48      |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 20                  | 14.48    | 0.52                | 14.64      |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 20                  | 14.48    | 0.52                | 14.64      |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 20                  | 14.48    | 1.3                 | 14.9       |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 20                  | 14.48    | 1.3                 | 14.9       |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 20                  | 14.47    | 1.22                | 15.02      |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 20                  | 14.47    | 1.22                | 15.02      |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 20                  | 14.45    | 0.29                | 14.39      |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 20                  | 14.45    | 0.29                | 14.39      |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 20                  | 14.45    | 0.67                | 14.28      |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 20                  | 14.44    | 0.22                | 14.4       |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 20                  | 14.42    | 0.16                | 14.35      |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 20                  | 14.41    | 0.24                | 14.38      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2 | 20                  | 14.41    | 0.24                | 14.38      |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3 | 20                  | 14.41    | 0.27                | 14.46      |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 20                  | 14.41    | 0.11                | 14.42      |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 20                  | 14.4     | 0.25                | 14.44      |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 20                  | 14.4     | 0.25                | 14.44      |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 20                  | 14.4     | 0.22                | 14.34      |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 20                  | 14.4     | 0.22                | 14.34      |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2 | 20                  | 14.39    | 0.11                | 14.43      |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3 | 20                  | 14.39    | 0.11                | 14.43      |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 20                  | 14.36    | 0.54                | 14.31      |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2 | 20                  | 14.35    | 0.93                | 13.85      |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 20                  | 14.35    | 0.93                | 13.85      |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 20                  | 14.35    | 0.43                | 14.47      |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2 | 20                  | 14.34    | 1.14                | 14.54      |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 20                  | 14.34    | 0.24                | 14.34      |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 20                  | 14.34    | 0.19                | 14.3       |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 20                  | 14.33    | 0.81                | 14.63      |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 20                  | 14.33    | 0.81                | 14.63      |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 20                  | 14.33    | 0.81                | 14.63      |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA  | 20                  | 14.33    | 0.21                | 14.38      |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2 | 20                  | 14.32    | 0.14                | 14.32      |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2 | 20                  | 14.32    | 0.14                | 14.32      |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3 | 20                  | 14.32    | 0.14                | 14.32      |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3 | 20                  | 14.32    | 0.14                | 14.32      |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H   | 20                  | 14.32    | 0.16                | 14.29      |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 20                  | 14.28    | 2.03                | 13.17      |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 20                  | 14.27    | 1.81                | 14.44      |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 20                  | 14.27    | 1.81                | 14.44      |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 20                  | 14.27    | 2.26                | 15.04      |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 20                  | 14.26    | 0.24                | 14.32      |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2 | 20                  | 14.26    | 0.19                | 14.23      |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3 | 20                  | 14.26    | 0.19                | 14.23      |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 20                  | 14.26    | 3.42                | 13.78      |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 20                  | 14.26    | 3.42                | 13.78      |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 20                  | 14.25    | 0.19                | 14.23      |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2 | 20                  | 14.24    | 0.63                | 14.16      |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3 | 20                  | 14.24    | 0.63                | 14.16      |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 20                  | 14.24    | 0.25                | 14.18      |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 20                  | 14.22    | 2.81                | 13.48      |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2 | 20                  | 14.22    | 0.65                | 14.37      |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3 | 20                  | 14.22    | 0.65                | 14.37      |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H   | 20                  | 14.21    | 0.38                | 14.07      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 20                  | 14.21    | 1.7                 | 14.8       |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 20                  | 14.19    | 1.33                | 14.52      |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 20                  | 14.19    | 0.55                | 14.16      |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 20                  | 14.19    | 0.17                | 14.13      |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 20                  | 14.19    | 1.38                | 14.32      |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 20                  | 14.19    | 1.38                | 14.32      |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 20                  | 14.19    | 1.38                | 14.32      |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 20                  | 14.18    | 0.13                | 14.23      |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 20                  | 14.18    | 0.22                | 14.18      |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 20                  | 14.18    | 0.22                | 14.18      |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 20                  | 14.18    | 0.15                | 14.2       |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 20                  | 14.17    | 0.89                | 14.12      |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 20                  | 14.17    | 0.89                | 14.12      |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 20                  | 14.17    | 0.78                | 14.48      |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 20                  | 14.17    | 0.52                | 14.12      |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 20                  | 14.16    | 0.66                | 14.3       |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 20                  | 14.16    | 0.66                | 14.3       |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 20                  | 14.16    | 0.11                | 14.18      |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 20                  | 14.16    | 0.19                | 14.18      |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 20                  | 14.16    | 0.87                | 14.02      |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 20                  | 14.16    | 0.87                | 14.02      |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 20                  | 14.15    | 0.41                | 14.07      |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 20                  | 14.15    | 0.41                | 14.07      |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 20                  | 14.15    | 0.13                | 14.16      |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 20                  | 14.15    | 0.27                | 14.2       |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 20                  | 14.15    | 0.27                | 14.2       |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 20                  | 14.14    | 0.17                | 14.1       |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 20                  | 14.14    | 0.17                | 14.1       |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 20                  | 14.14    | 2.66                | 13.58      |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 20                  | 14.13    | 0.6                 | 13.84      |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 20                  | 14.13    | 0.13                | 14.14      |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 20                  | 14.13    | 0.73                | 13.92      |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 20                  | 14.13    | 0.56                | 14.16      |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 20                  | 14.13    | 0.56                | 14.16      |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 20                  | 14.12    | 0.13                | 14.12      |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 20                  | 14.12    | 0.22                | 14.14      |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 20                  | 14.12    | 0.22                | 14.14      |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 20                  | 14.12    | 0.2                 | 14.07      |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 20                  | 14.11    | 0.11                | 14.08      |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 20                  | 14.11    | 0.11                | 14.08      |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 20                  | 14.1     | 0.13                | 14.14      |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 20                  | 14.1     | 0.13                | 14.14      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 20                  | 14.09    | 0.14                | 14.08      |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 20                  | 14.09    | 0.26                | 14.16      |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 20                  | 14.09    | 0.17                | 14.14      |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 20                  | 14.08    | 0.15                | 14.1       |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 20                  | 14.07    | 0.3                 | 14.05      |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 20                  | 14.06    | 0.16                | 14.04      |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 20                  | 14.06    | 0.16                | 14.04      |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 20                  | 14.05    | 0.19                | 14.06      |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 20                  | 14.04    | 0.22                | 13.94      |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 20                  | 14.04    | 0.51                | 14.06      |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 20                  | 14.04    | 0.51                | 14.06      |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 20                  | 14.03    | 0.82                | 14.5       |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 20                  | 14.03    | 0.82                | 14.5       |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 20                  | 14.03    | 0.82                | 14.5       |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 20                  | 14.02    | 0.25                | 14.02      |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 20                  | 14.02    | 0.25                | 14.02      |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 20                  | 14.02    | 0.33                | 14.0       |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 20                  | 14.01    | 0.13                | 14.01      |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 20                  | 14.0     | 0.07                | 14.0       |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 20                  | 14.0     | 0.74                | 14.12      |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 20                  | 14.0     | 0.74                | 14.12      |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 20                  | 14.0     | 0.69                | 14.14      |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 20                  | 14.0     | 0.69                | 14.14      |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 20                  | 13.99    | 0.12                | 13.96      |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 20                  | 13.99    | 0.14                | 13.94      |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 20                  | 13.99    | 0.21                | 14.08      |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 20                  | 13.96    | 0.08                | 13.96      |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 20                  | 13.96    | 0.08                | 13.96      |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 20                  | 13.96    | 1.03                | 14.25      |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 20                  | 13.95    | 0.82                | 14.26      |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 20                  | 13.94    | 0.91                | 14.19      |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 20                  | 13.94    | 0.91                | 14.19      |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 20                  | 13.94    | 0.13                | 13.94      |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 20                  | 13.94    | 0.2                 | 13.85      |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 20                  | 13.93    | 0.76                | 14.08      |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 20                  | 13.93    | 0.76                | 14.08      |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 20                  | 13.92    | 0.86                | 13.84      |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 20                  | 13.91    | 1.73                | 14.76      |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 20                  | 13.9     | 0.9                 | 14.37      |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 20                  | 13.9     | 0.9                 | 14.37      |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 20                  | 13.9     | 0.9                 | 14.37      |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 20                  | 13.89    | 1.03                | 14.42      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 20                  | 13.89    | 1.03                | 14.42      |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 20                  | 13.89    | 1.03                | 14.42      |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 20                  | 13.89    | 0.94                | 13.98      |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 20                  | 13.89    | 0.94                | 13.98      |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 20                  | 13.89    | 0.94                | 13.98      |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 20                  | 13.88    | 0.31                | 13.89      |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 20                  | 13.88    | 0.27                | 13.82      |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 20                  | 13.88    | 0.27                | 13.82      |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 20                  | 13.88    | 2.12                | 13.72      |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 20                  | 13.88    | 2.12                | 13.72      |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 20                  | 13.88    | 1.94                | 13.98      |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 20                  | 13.87    | 0.24                | 13.82      |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 20                  | 13.87    | 0.24                | 13.82      |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 20                  | 13.87    | 1.98                | 14.41      |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 20                  | 13.85    | 0.26                | 13.82      |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 20                  | 13.85    | 0.31                | 13.68      |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 20                  | 13.83    | 0.1                 | 13.77      |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 20                  | 13.83    | 0.1                 | 13.77      |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 20                  | 13.83    | 0.12                | 13.8       |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 20                  | 13.83    | 0.75                | 13.73      |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 20                  | 13.82    | 0.32                | 13.76      |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 20                  | 13.82    | 4.22                | 12.96      |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 20                  | 13.82    | 0.12                | 13.78      |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 20                  | 13.82    | 0.12                | 13.78      |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 20                  | 13.81    | 1.63                | 13.93      |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 20                  | 13.81    | 1.63                | 13.93      |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 20                  | 13.81    | 0.15                | 13.88      |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 20                  | 13.81    | 0.11                | 13.83      |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 20                  | 13.81    | 0.11                | 13.83      |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 20                  | 13.8     | 0.23                | 13.77      |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 20                  | 13.79    | 0.75                | 13.94      |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 20                  | 13.79    | 0.94                | 13.74      |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 20                  | 13.77    | 0.11                | 13.76      |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 20                  | 13.77    | 0.11                | 13.76      |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 20                  | 13.77    | 0.87                | 14.02      |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 20                  | 13.77    | 0.19                | 13.8       |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 20                  | 13.77    | 0.19                | 13.8       |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 20                  | 13.77    | 0.51                | 13.65      |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 20                  | 13.77    | 0.33                | 13.8       |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 20                  | 13.76    | 0.5                 | 13.73      |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 20                  | 13.76    | 1.84                | 14.43      |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 20                  | 13.76    | 1.84                | 14.43      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 20                  | 13.76    | 0.77                | 13.98      |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 20                  | 13.76    | 0.77                | 13.98      |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 20                  | 13.75    | 0.25                | 13.63      |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 20                  | 13.75    | 1.13                | 14.06      |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 20                  | 13.75    | 1.13                | 14.06      |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 20                  | 13.74    | 0.87                | 13.71      |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 20                  | 13.74    | 0.87                | 13.71      |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 20                  | 13.74    | 0.87                | 13.71      |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 20                  | 13.74    | 0.87                | 13.71      |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 20                  | 13.74    | 0.98                | 13.52      |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 20                  | 13.74    | 0.7                 | 13.9       |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 20                  | 13.74    | 0.7                 | 13.9       |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 20                  | 13.73    | 0.31                | 13.64      |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 20                  | 13.71    | 0.29                | 13.64      |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 20                  | 13.71    | 0.62                | 13.7       |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 20                  | 13.71    | 0.29                | 13.66      |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 20                  | 13.71    | 0.78                | 13.96      |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 20                  | 13.71    | 0.78                | 13.96      |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 20                  | 13.71    | 0.78                | 13.96      |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 20                  | 13.7     | 0.61                | 14.03      |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 20                  | 13.69    | 0.25                | 13.74      |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 20                  | 13.69    | 0.25                | 13.74      |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 20                  | 13.69    | 0.18                | 13.71      |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 20                  | 13.69    | 0.18                | 13.71      |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 20                  | 13.69    | 2.13                | 13.93      |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 20                  | 13.69    | 0.83                | 14.0       |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 20                  | 13.69    | 0.83                | 14.0       |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 20                  | 13.68    | 0.72                | 13.76      |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 20                  | 13.68    | 0.72                | 13.76      |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 20                  | 13.68    | 1.01                | 13.78      |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 20                  | 13.68    | 0.19                | 13.64      |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 20                  | 13.68    | 0.19                | 13.64      |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 20                  | 13.67    | 0.09                | 13.66      |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 20                  | 13.67    | 0.71                | 13.66      |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 20                  | 13.67    | 0.18                | 13.64      |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 20                  | 13.67    | 0.33                | 13.63      |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 20                  | 13.67    | 0.13                | 13.67      |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 20                  | 13.67    | 0.13                | 13.67      |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 20                  | 13.67    | 0.12                | 13.64      |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 20                  | 13.66    | 0.75                | 13.85      |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 20                  | 13.66    | 0.75                | 13.85      |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 20                  | 13.66    | 0.28                | 13.7       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 20                  | 13.66    | 0.28                | 13.7       |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 20                  | 13.66    | 0.15                | 13.65      |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 20                  | 13.64    | 0.18                | 13.62      |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 20                  | 13.64    | 0.18                | 13.62      |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 20                  | 13.64    | 0.19                | 13.6       |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 20                  | 13.64    | 0.19                | 13.6       |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 20                  | 13.63    | 0.91                | 13.58      |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 20                  | 13.63    | 0.91                | 13.58      |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 20                  | 13.62    | 2.14                | 14.07      |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 20                  | 13.61    | 0.1                 | 13.6       |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 20                  | 13.61    | 0.44                | 13.58      |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 20                  | 13.61    | 0.44                | 13.58      |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 20                  | 13.61    | 0.19                | 13.48      |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 20                  | 13.6     | 0.21                | 13.5       |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 20                  | 13.59    | 3.42                | 12.82      |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 20                  | 13.58    | 0.1                 | 13.6       |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 20                  | 13.58    | 0.19                | 13.61      |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 20                  | 13.58    | 0.19                | 13.61      |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 20                  | 13.56    | 0.26                | 13.63      |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 20                  | 13.56    | 0.13                | 13.58      |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 20                  | 13.56    | 0.13                | 13.58      |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 20                  | 13.56    | 0.18                | 13.64      |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 20                  | 13.55    | 0.13                | 13.54      |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 20                  | 13.54    | 0.15                | 13.57      |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 20                  | 13.54    | 0.19                | 13.55      |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 20                  | 13.54    | 0.24                | 13.57      |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 20                  | 13.54    | 0.24                | 13.57      |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 20                  | 13.54    | 0.97                | 13.55      |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 20                  | 13.53    | 0.19                | 13.54      |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 20                  | 13.53    | 0.18                | 13.62      |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 20                  | 13.53    | 0.18                | 13.62      |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 20                  | 13.52    | 0.24                | 13.7       |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 20                  | 13.5     | 0.11                | 13.54      |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 20                  | 13.5     | 0.11                | 13.54      |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 20                  | 13.5     | 2.38                | 13.02      |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 20                  | 13.49    | 2.73                | 13.51      |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 20                  | 13.49    | 0.21                | 13.44      |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 20                  | 13.49    | 1.79                | 13.3       |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 20                  | 13.48    | 0.18                | 13.52      |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 20                  | 13.47    | 0.31                | 13.5       |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 20                  | 13.47    | 0.31                | 13.5       |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 20                  | 13.47    | 0.95                | 13.53      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 20                  | 13.47    | 0.36                | 13.46      |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 20                  | 13.47    | 0.36                | 13.46      |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 20                  | 13.46    | 0.17                | 13.47      |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 20                  | 13.45    | 0.21                | 13.43      |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 20                  | 13.45    | 0.21                | 13.43      |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 20                  | 13.43    | 0.18                | 13.43      |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 20                  | 13.43    | 0.18                | 13.43      |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 20                  | 13.43    | 0.22                | 13.42      |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 20                  | 13.43    | 0.22                | 13.42      |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2 | 20                  | 13.43    | 0.22                | 13.42      |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3 | 20                  | 13.43    | 0.22                | 13.42      |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA  | 20                  | 13.43    | 0.47                | 13.46      |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 20                  | 13.43    | 0.14                | 13.42      |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2 | 20                  | 13.43    | 0.5                 | 13.61      |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3 | 20                  | 13.43    | 0.5                 | 13.61      |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 20                  | 13.42    | 1.5                 | 13.27      |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 20                  | 13.42    | 1.5                 | 13.27      |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3 | 20                  | 13.41    | 0.61                | 13.52      |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H   | 20                  | 13.41    | 0.21                | 13.39      |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 20                  | 13.41    | 0.23                | 13.36      |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 20                  | 13.4     | 0.29                | 13.5       |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 20                  | 13.4     | 1.03                | 13.08      |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 20                  | 13.4     | 1.03                | 13.08      |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 20                  | 13.4     | 0.32                | 13.3       |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H   | 20                  | 13.4     | 0.11                | 13.4       |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H   | 20                  | 13.4     | 0.21                | 13.36      |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H   | 20                  | 13.4     | 0.28                | 13.33      |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3 | 20                  | 13.4     | 0.14                | 13.46      |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1 | 20                  | 13.39    | 1.08                | 14.01      |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2 | 20                  | 13.39    | 1.08                | 14.01      |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3 | 20                  | 13.39    | 1.08                | 14.01      |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 20                  | 13.38    | 2.94                | 12.72      |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 20                  | 13.38    | 0.43                | 13.3       |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 20                  | 13.38    | 1.24                | 13.56      |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 20                  | 13.38    | 1.24                | 13.56      |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 20                  | 13.38    | 1.24                | 13.56      |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H   | 20                  | 13.37    | 0.16                | 13.39      |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 20                  | 13.37    | 0.8                 | 13.16      |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2 | 20                  | 13.37    | 0.15                | 13.33      |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3 | 20                  | 13.37    | 0.15                | 13.33      |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 20                  | 13.37    | 0.77                | 13.29      |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2 | 20                  | 13.36    | 1.9                 | 13.2       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 20                  | 13.36    | 0.31                | 13.29      |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 20                  | 13.36    | 0.31                | 13.29      |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 20                  | 13.36    | 0.58                | 13.52      |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 20                  | 13.36    | 0.58                | 13.52      |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 20                  | 13.35    | 0.75                | 13.56      |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 20                  | 13.35    | 0.75                | 13.56      |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 20                  | 13.35    | 0.24                | 13.34      |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 20                  | 13.35    | 0.24                | 13.34      |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 20                  | 13.35    | 0.19                | 13.35      |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 20                  | 13.34    | 0.46                | 13.18      |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 20                  | 13.34    | 0.22                | 13.3       |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 20                  | 13.34    | 0.22                | 13.3       |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 20                  | 13.34    | 0.22                | 13.3       |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 20                  | 13.34    | 0.9                 | 13.42      |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 20                  | 13.33    | 0.42                | 13.2       |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 20                  | 13.33    | 0.42                | 13.2       |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 20                  | 13.33    | 0.2                 | 13.37      |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 20                  | 13.33    | 0.29                | 13.38      |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 20                  | 13.31    | 0.33                | 13.32      |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 20                  | 13.31    | 0.33                | 13.32      |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 20                  | 13.31    | 0.1                 | 13.31      |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 20                  | 13.3     | 0.3                 | 13.37      |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 20                  | 13.3     | 1.79                | 13.12      |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 20                  | 13.3     | 0.19                | 13.32      |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 20                  | 13.3     | 1.03                | 12.88      |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 20                  | 13.3     | 1.03                | 12.88      |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 20                  | 13.29    | 0.78                | 13.56      |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 20                  | 13.29    | 0.79                | 13.18      |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 20                  | 13.27    | 0.67                | 13.62      |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 20                  | 13.27    | 0.67                | 13.62      |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 20                  | 13.27    | 0.67                | 13.62      |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 20                  | 13.26    | 1.2                 | 13.71      |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 20                  | 13.26    | 1.2                 | 13.71      |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 20                  | 13.24    | 0.33                | 13.24      |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 20                  | 13.23    | 0.24                | 13.2       |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 20                  | 13.23    | 0.24                | 13.2       |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 20                  | 13.22    | 0.45                | 12.94      |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 20                  | 13.22    | 0.11                | 13.23      |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 20                  | 13.22    | 0.16                | 13.2       |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 20                  | 13.21    | 3.55                | 12.58      |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 20                  | 13.21    | 0.14                | 13.24      |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 20                  | 13.21    | 0.12                | 13.18      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 20                  | 13.21    | 0.09                | 13.17      |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 20                  | 13.21    | 0.09                | 13.17      |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 20                  | 13.21    | 0.27                | 13.21      |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 20                  | 13.21    | 0.93                | 13.25      |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 20                  | 13.21    | 0.93                | 13.25      |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 20                  | 13.2     | 0.08                | 13.2       |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 20                  | 13.2     | 0.08                | 13.2       |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 20                  | 13.19    | 0.27                | 13.28      |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 20                  | 13.19    | 0.18                | 13.18      |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 20                  | 13.19    | 0.18                | 13.18      |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 20                  | 13.18    | 0.87                | 13.26      |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 20                  | 13.18    | 0.87                | 13.26      |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 20                  | 13.18    | 0.23                | 13.26      |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 20                  | 13.18    | 0.23                | 13.26      |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 20                  | 13.17    | 0.22                | 13.22      |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 20                  | 13.17    | 0.22                | 13.22      |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 20                  | 13.17    | 0.92                | 13.25      |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 20                  | 13.16    | 0.15                | 13.12      |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 20                  | 13.16    | 0.63                | 13.23      |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 20                  | 13.16    | 0.63                | 13.23      |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 20                  | 13.16    | 0.63                | 13.23      |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 20                  | 13.16    | 0.63                | 13.23      |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 20                  | 13.15    | 0.36                | 13.03      |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 20                  | 13.15    | 0.19                | 13.13      |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 20                  | 13.15    | 0.19                | 13.13      |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 20                  | 13.14    | 1.04                | 13.27      |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 20                  | 13.14    | 1.04                | 13.27      |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 20                  | 13.14    | 1.04                | 13.27      |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 20                  | 13.14    | 0.52                | 12.98      |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 20                  | 13.14    | 2.6                 | 12.48      |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 20                  | 13.13    | 1.09                | 13.28      |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 20                  | 13.13    | 0.14                | 13.09      |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 20                  | 13.13    | 0.14                | 13.09      |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 20                  | 13.12    | 0.2                 | 13.12      |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 20                  | 13.12    | 0.2                 | 13.12      |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 20                  | 13.11    | 0.11                | 13.15      |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 20                  | 13.11    | 0.72                | 13.22      |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 20                  | 13.11    | 0.88                | 13.34      |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 20                  | 13.11    | 0.88                | 13.34      |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 20                  | 13.1     | 0.24                | 13.06      |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1  | 20                  | 13.1     | 0.1                 | 13.1       |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2  | 20                  | 13.1     | 0.1                 | 13.1       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 20                  | 13.1     | 0.06                | 13.07      |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 20                  | 13.1     | 0.06                | 13.07      |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 20                  | 13.1     | 0.4                 | 13.32      |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 20                  | 13.1     | 0.87                | 13.44      |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 20                  | 13.1     | 0.87                | 13.44      |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 20                  | 13.09    | 0.06                | 13.11      |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 20                  | 13.09    | 3.47                | 12.7       |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 20                  | 13.09    | 0.31                | 12.99      |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 20                  | 13.08    | 1.45                | 13.3       |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 20                  | 13.08    | 1.45                | 13.3       |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 20                  | 13.08    | 1.45                | 13.3       |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1  | 20                  | 13.08    | 3.08                | 12.26      |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 20                  | 13.08    | 0.18                | 13.1       |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 20                  | 13.08    | 0.87                | 12.86      |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 20                  | 13.08    | 0.87                | 12.86      |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 20                  | 13.07    | 0.36                | 13.16      |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 20                  | 13.06    | 0.12                | 13.04      |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 20                  | 13.06    | 0.12                | 13.05      |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 20                  | 13.05    | 0.27                | 13.1       |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 20                  | 13.04    | 0.3                 | 13.02      |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 20                  | 13.04    | 0.62                | 12.68      |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 20                  | 13.04    | 1.01                | 12.44      |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 20                  | 13.04    | 1.01                | 12.44      |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 20                  | 13.03    | 0.64                | 12.96      |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 20                  | 13.03    | 1.91                | 13.08      |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 20                  | 13.03    | 0.27                | 13.0       |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 20                  | 13.03    | 0.21                | 12.92      |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 20                  | 13.03    | 0.21                | 12.92      |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 20                  | 13.03    | 0.65                | 12.78      |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 20                  | 13.03    | 0.86                | 12.57      |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 20                  | 13.03    | 0.86                | 12.57      |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 20                  | 13.02    | 0.86                | 12.58      |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 20                  | 13.02    | 0.86                | 12.58      |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 20                  | 13.02    | 0.87                | 12.56      |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 20                  | 13.02    | 0.87                | 12.56      |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 20                  | 13.02    | 0.67                | 12.68      |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 20                  | 13.01    | 0.21                | 12.96      |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 20                  | 13.01    | 0.21                | 12.96      |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 20                  | 13.01    | 0.14                | 13.0       |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 20                  | 13.01    | 0.25                | 13.0       |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 20                  | 13.01    | 0.25                | 13.0       |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 20                  | 13.01    | 1.26                | 13.11      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 20                  | 13.01    | 1.26                | 13.11      |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 20                  | 12.99    | 3.96                | 12.11      |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 20                  | 12.98    | 0.23                | 12.97      |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 20                  | 12.98    | 0.23                | 12.97      |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3 | 20                  | 12.98    | 0.61                | 13.14      |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3 | 20                  | 12.98    | 0.61                | 13.14      |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 20                  | 12.98    | 0.24                | 12.96      |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 20                  | 12.98    | 0.24                | 12.96      |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H   | 20                  | 12.96    | 0.27                | 12.98      |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA  | 20                  | 12.95    | 0.28                | 13.08      |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 20                  | 12.94    | 0.45                | 13.02      |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 20                  | 12.93    | 0.26                | 12.88      |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 20                  | 12.93    | 0.24                | 12.9       |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 20                  | 12.93    | 0.24                | 12.9       |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 20                  | 12.93    | 0.24                | 12.9       |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 20                  | 12.93    | 0.24                | 12.9       |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 20                  | 12.92    | 0.28                | 12.88      |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 20                  | 12.92    | 0.18                | 12.88      |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 20                  | 12.92    | 0.09                | 12.92      |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 20                  | 12.9     | 0.96                | 13.44      |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 20                  | 12.9     | 0.96                | 13.44      |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 20                  | 12.9     | 0.96                | 13.44      |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H   | 20                  | 12.9     | 0.12                | 12.86      |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 20                  | 12.89    | 0.26                | 12.94      |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 20                  | 12.88    | 1.77                | 13.12      |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 20                  | 12.88    | 0.15                | 12.9       |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1 | 20                  | 12.88    | 0.27                | 12.95      |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2 | 20                  | 12.88    | 0.27                | 12.95      |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 20                  | 12.88    | 0.57                | 13.18      |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 20                  | 12.87    | 0.85                | 13.11      |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 20                  | 12.87    | 0.85                | 13.11      |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 20                  | 12.87    | 0.85                | 13.11      |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H   | 20                  | 12.87    | 0.14                | 12.86      |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1 | 20                  | 12.87    | 3.05                | 13.21      |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 20                  | 12.86    | 0.13                | 12.84      |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 20                  | 12.86    | 0.13                | 12.84      |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 20                  | 12.86    | 0.29                | 12.86      |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE  | 20                  | 12.86    | 2.06                | 13.1       |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2 | 20                  | 12.86    | 0.3                 | 12.92      |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3 | 20                  | 12.86    | 0.3                 | 12.92      |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1 | 20                  | 12.86    | 0.97                | 13.3       |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2 | 20                  | 12.86    | 0.97                | 13.3       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 20                  | 12.86    | 0.97                | 13.3       |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 20                  | 12.85    | 0.92                | 12.36      |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 20                  | 12.85    | 0.92                | 12.36      |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 20                  | 12.85    | 1.1                 | 13.16      |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 20                  | 12.85    | 1.1                 | 13.16      |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 20                  | 12.85    | 1.28                | 12.55      |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 20                  | 12.85    | 1.28                | 12.55      |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 20                  | 12.84    | 0.38                | 12.82      |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 20                  | 12.84    | 0.38                | 12.82      |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 20                  | 12.83    | 2.4                 | 13.85      |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 20                  | 12.82    | 0.16                | 12.78      |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 20                  | 12.81    | 0.68                | 12.82      |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 20                  | 12.8     | 0.26                | 12.88      |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 20                  | 12.8     | 0.26                | 12.88      |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 20                  | 12.78    | 1.17                | 13.16      |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 20                  | 12.77    | 0.23                | 12.78      |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 20                  | 12.76    | 0.13                | 12.8       |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 20                  | 12.76    | 0.13                | 12.8       |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 20                  | 12.76    | 0.23                | 12.75      |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 20                  | 12.76    | 0.23                | 12.75      |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 20                  | 12.74    | 1.97                | 12.52      |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 20                  | 12.74    | 0.09                | 12.74      |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 20                  | 12.74    | 0.09                | 12.78      |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 20                  | 12.74    | 0.59                | 12.54      |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 20                  | 12.73    | 0.11                | 12.75      |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 20                  | 12.73    | 0.11                | 12.75      |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 20                  | 12.73    | 0.21                | 12.72      |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 20                  | 12.72    | 0.35                | 12.72      |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 20                  | 12.72    | 0.35                | 12.72      |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 20                  | 12.71    | 0.28                | 12.74      |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 20                  | 12.71    | 0.28                | 12.74      |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 20                  | 12.71    | 1.52                | 12.7       |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 20                  | 12.71    | 1.52                | 12.7       |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 20                  | 12.7     | 0.48                | 12.81      |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 20                  | 12.7     | 0.29                | 12.7       |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 20                  | 12.7     | 0.29                | 12.7       |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 20                  | 12.69    | 0.96                | 13.34      |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 20                  | 12.69    | 0.96                | 13.34      |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 20                  | 12.69    | 0.96                | 13.34      |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 20                  | 12.69    | 0.58                | 12.72      |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 20                  | 12.69    | 0.58                | 12.72      |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 20                  | 12.69    | 0.58                | 12.72      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 20                  | 12.69    | 0.58                | 12.72      |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 20                  | 12.69    | 0.2                 | 12.75      |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 20                  | 12.69    | 0.14                | 12.61      |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 20                  | 12.69    | 0.69                | 12.48      |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 20                  | 12.69    | 0.22                | 12.7       |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 20                  | 12.68    | 1.14                | 13.06      |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 20                  | 12.67    | 1.0                 | 12.82      |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 20                  | 12.67    | 1.11                | 12.12      |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 20                  | 12.67    | 1.56                | 11.66      |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 20                  | 12.66    | 0.68                | 12.48      |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 20                  | 12.66    | 0.08                | 12.65      |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 20                  | 12.66    | 0.08                | 12.65      |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 20                  | 12.65    | 0.67                | 12.42      |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 20                  | 12.65    | 0.67                | 12.42      |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 20                  | 12.65    | 0.26                | 12.74      |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 20                  | 12.64    | 0.23                | 12.66      |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 20                  | 12.64    | 0.15                | 12.59      |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 20                  | 12.63    | 1.03                | 13.04      |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 20                  | 12.63    | 1.03                | 13.04      |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 20                  | 12.63    | 0.12                | 12.66      |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 20                  | 12.63    | 0.12                | 12.66      |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 20                  | 12.63    | 0.94                | 12.91      |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 20                  | 12.63    | 0.94                | 12.91      |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 20                  | 12.63    | 0.14                | 12.59      |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 20                  | 12.62    | 0.16                | 12.64      |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 20                  | 12.61    | 1.03                | 12.01      |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 20                  | 12.61    | 3.64                | 12.07      |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 20                  | 12.61    | 3.64                | 12.07      |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 20                  | 12.61    | 0.27                | 12.73      |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 20                  | 12.61    | 0.12                | 12.57      |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 20                  | 12.61    | 0.78                | 13.08      |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 20                  | 12.61    | 0.78                | 13.08      |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 20                  | 12.61    | 0.78                | 13.08      |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 20                  | 12.61    | 0.43                | 12.68      |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1  | 20                  | 12.6     | 3.95                | 11.8       |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 20                  | 12.6     | 0.05                | 12.62      |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 20                  | 12.6     | 0.83                | 12.8       |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 20                  | 12.6     | 0.5                 | 12.86      |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 20                  | 12.6     | 0.5                 | 12.86      |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2  | 20                  | 12.6     | 0.92                | 12.05      |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 20                  | 12.6     | 0.92                | 12.05      |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 20                  | 12.59    | 0.04                | 12.58      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 20                  | 12.59    | 0.33                | 12.68      |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA  | 20                  | 12.59    | 0.33                | 12.68      |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 20                  | 12.58    | 0.46                | 12.41      |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 20                  | 12.58    | 0.52                | 12.86      |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 20                  | 12.57    | 0.14                | 12.56      |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA  | 20                  | 12.57    | 0.11                | 12.58      |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 20                  | 12.56    | 0.39                | 12.63      |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA  | 20                  | 12.56    | 0.18                | 12.52      |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H   | 20                  | 12.56    | 0.17                | 12.62      |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 20                  | 12.55    | 0.33                | 12.4       |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 20                  | 12.55    | 0.33                | 12.4       |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1 | 20                  | 12.55    | 0.27                | 12.52      |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2 | 20                  | 12.55    | 0.27                | 12.52      |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3 | 20                  | 12.54    | 0.13                | 12.48      |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H   | 20                  | 12.54    | 0.21                | 12.61      |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 20                  | 12.54    | 0.2                 | 12.58      |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1 | 20                  | 12.54    | 1.08                | 12.44      |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2 | 20                  | 12.54    | 1.08                | 12.44      |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3 | 20                  | 12.54    | 1.08                | 12.44      |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 20                  | 12.52    | 0.3                 | 12.46      |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 20                  | 12.52    | 0.28                | 12.46      |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 20                  | 12.52    | 0.28                | 12.46      |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H   | 20                  | 12.52    | 0.16                | 12.5       |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 20                  | 12.52    | 0.39                | 12.43      |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 20                  | 12.51    | 0.35                | 12.42      |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H   | 20                  | 12.51    | 0.13                | 12.48      |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 20                  | 12.5     | 1.32                | 12.27      |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 20                  | 12.49    | 0.22                | 12.6       |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 20                  | 12.49    | 0.74                | 12.8       |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 20                  | 12.49    | 0.74                | 12.8       |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 20                  | 12.49    | 0.18                | 12.5       |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 20                  | 12.49    | 0.41                | 12.42      |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 20                  | 12.49    | 0.41                | 12.42      |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 20                  | 12.49    | 3.28                | 11.78      |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 20                  | 12.49    | 3.28                | 11.78      |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 20                  | 12.49    | 0.2                 | 12.52      |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H   | 20                  | 12.49    | 0.68                | 12.62      |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 20                  | 12.48    | 2.18                | 12.98      |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2  | 20                  | 12.48    | 0.56                | 12.76      |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3  | 20                  | 12.48    | 0.56                | 12.76      |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2 | 20                  | 12.48    | 2.66                | 13.46      |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1 | 20                  | 12.47    | 0.82                | 12.56      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 20                  | 12.47    | 0.82                | 12.56      |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 20                  | 12.45    | 0.93                | 12.32      |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 20                  | 12.45    | 0.43                | 12.74      |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 20                  | 12.44    | 1.82                | 12.72      |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 20                  | 12.43    | 0.85                | 12.64      |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 20                  | 12.42    | 0.14                | 12.44      |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 20                  | 12.42    | 0.13                | 12.4       |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 20                  | 12.42    | 0.16                | 12.39      |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 20                  | 12.42    | 0.1                 | 12.43      |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 20                  | 12.41    | 0.18                | 12.46      |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 20                  | 12.41    | 0.23                | 12.41      |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 20                  | 12.41    | 0.23                | 12.41      |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 20                  | 12.41    | 0.06                | 12.39      |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 20                  | 12.41    | 1.07                | 12.44      |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 20                  | 12.41    | 0.83                | 12.52      |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1  | 20                  | 12.41    | 4.63                | 11.25      |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 20                  | 12.41    | 0.49                | 12.51      |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 20                  | 12.41    | 0.49                | 12.51      |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 20                  | 12.4     | 0.14                | 12.44      |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 20                  | 12.4     | 0.13                | 12.46      |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 20                  | 12.4     | 0.13                | 12.42      |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 20                  | 12.4     | 0.04                | 12.38      |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 20                  | 12.39    | 0.24                | 12.35      |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 20                  | 12.39    | 0.24                | 12.35      |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 20                  | 12.39    | 0.2                 | 12.42      |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 20                  | 12.39    | 0.2                 | 12.42      |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 20                  | 12.37    | 0.37                | 12.39      |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 20                  | 12.36    | 0.5                 | 12.24      |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 20                  | 12.35    | 0.21                | 12.38      |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 20                  | 12.35    | 0.32                | 12.28      |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 20                  | 12.35    | 0.88                | 12.28      |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 20                  | 12.35    | 0.11                | 12.36      |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 20                  | 12.35    | 0.11                | 12.3       |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 20                  | 12.35    | 0.11                | 12.3       |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 20                  | 12.34    | 0.25                | 12.26      |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 20                  | 12.34    | 0.25                | 12.26      |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 20                  | 12.33    | 0.79                | 12.46      |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 20                  | 12.33    | 0.79                | 12.46      |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 20                  | 12.33    | 1.18                | 12.56      |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 20                  | 12.33    | 1.18                | 12.56      |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 20                  | 12.33    | 0.33                | 12.48      |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 20                  | 12.33    | 0.17                | 12.24      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 20                  | 12.33    | 2.7                 | 13.2       |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 20                  | 12.32    | 0.2                 | 12.39      |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2  | 20                  | 12.32    | 3.8                 | 11.48      |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 20                  | 12.31    | 1.33                | 12.74      |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 20                  | 12.31    | 1.33                | 12.74      |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 20                  | 12.31    | 0.16                | 12.3       |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 20                  | 12.31    | 0.97                | 12.38      |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 20                  | 12.31    | 0.29                | 12.28      |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 20                  | 12.31    | 0.29                | 12.28      |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 20                  | 12.31    | 0.22                | 12.19      |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 20                  | 12.3     | 0.88                | 12.53      |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 20                  | 12.3     | 0.15                | 12.34      |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 20                  | 12.29    | 0.26                | 12.29      |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 20                  | 12.29    | 0.26                | 12.29      |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 20                  | 12.27    | 0.25                | 12.23      |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 20                  | 12.27    | 0.8                 | 12.46      |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 20                  | 12.27    | 0.8                 | 12.46      |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 20                  | 12.26    | 0.27                | 12.3       |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 20                  | 12.26    | 0.27                | 12.3       |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 20                  | 12.26    | 0.16                | 12.17      |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 20                  | 12.24    | 0.64                | 12.55      |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 20                  | 12.22    | 0.1                 | 12.18      |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 20                  | 12.22    | 0.1                 | 12.18      |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 20                  | 12.22    | 0.31                | 12.12      |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 20                  | 12.22    | 3.66                | 11.42      |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 20                  | 12.21    | 0.27                | 12.09      |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 20                  | 12.21    | 0.27                | 12.09      |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 20                  | 12.2     | 0.31                | 12.06      |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 20                  | 12.2     | 0.31                | 12.06      |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 20                  | 12.2     | 0.21                | 12.27      |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 20                  | 12.2     | 0.21                | 12.27      |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 20                  | 12.19    | 0.13                | 12.21      |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 20                  | 12.19    | 0.99                | 12.16      |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 20                  | 12.19    | 0.99                | 12.16      |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 20                  | 12.19    | 1.05                | 11.84      |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 20                  | 12.19    | 1.05                | 11.84      |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 20                  | 12.18    | 0.26                | 12.24      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 20                  | 12.18    | 0.26                | 12.24      |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 20                  | 12.18    | 1.15                | 12.77      |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 20                  | 12.17    | 0.39                | 12.1       |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 20                  | 12.17    | 0.52                | 12.32      |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 20                  | 12.17    | 0.52                | 12.32      |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 20                  | 12.17    | 0.22                | 12.14      |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 20                  | 12.17    | 0.12                | 12.18      |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 20                  | 12.17    | 1.57                | 11.98      |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 20                  | 12.17    | 1.57                | 11.98      |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 20                  | 12.16    | 0.21                | 12.16      |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 20                  | 12.16    | 0.27                | 12.32      |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 20                  | 12.15    | 0.41                | 12.2       |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 20                  | 12.14    | 0.17                | 12.1       |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 20                  | 12.13    | 0.31                | 12.13      |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 20                  | 12.13    | 0.84                | 11.82      |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 20                  | 12.12    | 0.32                | 12.08      |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 20                  | 12.12    | 0.62                | 12.46      |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 20                  | 12.12    | 0.55                | 12.25      |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 20                  | 12.12    | 0.55                | 12.25      |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 20                  | 12.12    | 0.55                | 12.25      |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 20                  | 12.12    | 0.55                | 12.25      |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 20                  | 12.12    | 1.43                | 12.57      |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 20                  | 12.12    | 1.43                | 12.57      |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 20                  | 12.12    | 0.83                | 11.74      |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 20                  | 12.12    | 0.83                | 11.74      |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 20                  | 12.12    | 0.83                | 11.74      |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 20                  | 12.12    | 0.83                | 11.74      |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 20                  | 12.11    | 0.91                | 11.6       |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2  | 20                  | 12.11    | 1.28                | 12.91      |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 20                  | 12.11    | 0.12                | 12.17      |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 20                  | 12.11    | 0.12                | 12.17      |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 20                  | 12.1     | 0.39                | 12.1       |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 20                  | 12.1     | 0.14                | 12.04      |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 20                  | 12.1     | 0.86                | 12.01      |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 20                  | 12.1     | 0.86                | 12.01      |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 20                  | 12.1     | 0.86                | 12.01      |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 20                  | 12.1     | 0.86                | 12.01      |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 20                  | 12.1     | 0.15                | 12.04      |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 20                  | 12.09    | 0.28                | 12.13      |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 20                  | 12.09    | 0.19                | 12.07      |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 20                  | 12.09    | 0.19                | 12.07      |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 20                  | 12.08    | 2.02                | 12.2       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 20                  | 12.08    | 0.25                | 12.07      |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 20                  | 12.08    | 0.09                | 12.04      |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 20                  | 12.08    | 0.09                | 12.04      |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 20                  | 12.07    | 0.36                | 12.08      |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 20                  | 12.07    | 0.13                | 12.03      |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 20                  | 12.07    | 0.13                | 12.07      |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 20                  | 12.06    | 1.7                 | 12.02      |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 20                  | 12.04    | 1.79                | 12.76      |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 20                  | 12.04    | 0.3                 | 11.88      |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 20                  | 12.04    | 0.22                | 12.04      |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 20                  | 12.04    | 0.22                | 12.04      |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 20                  | 12.04    | 0.22                | 12.04      |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 20                  | 12.04    | 0.22                | 12.04      |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 20                  | 12.03    | 0.09                | 12.01      |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 20                  | 12.03    | 0.09                | 12.01      |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 20                  | 12.03    | 0.21                | 12.04      |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 20                  | 12.03    | 0.21                | 12.04      |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 20                  | 12.03    | 0.75                | 11.74      |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 20                  | 12.03    | 0.75                | 11.74      |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 20                  | 12.03    | 0.11                | 12.04      |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 20                  | 12.03    | 0.11                | 12.04      |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 20                  | 12.03    | 0.17                | 11.96      |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 20                  | 12.02    | 0.16                | 12.04      |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 20                  | 12.02    | 0.23                | 11.97      |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 20                  | 12.02    | 0.23                | 12.0       |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 20                  | 12.02    | 0.94                | 12.1       |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 20                  | 12.02    | 0.94                | 12.1       |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 20                  | 12.02    | 0.14                | 11.96      |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 20                  | 12.02    | 0.14                | 11.96      |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 20                  | 12.01    | 0.18                | 11.96      |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 20                  | 12.01    | 0.13                | 12.01      |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 20                  | 12.0     | 1.74                | 12.42      |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 20                  | 12.0     | 0.27                | 11.99      |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 20                  | 12.0     | 0.25                | 12.06      |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 20                  | 11.99    | 0.78                | 11.57      |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 20                  | 11.99    | 0.78                | 11.57      |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 20                  | 11.99    | 0.19                | 12.06      |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 20                  | 11.99    | 0.33                | 12.04      |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 20                  | 11.99    | 0.33                | 12.04      |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 20                  | 11.98    | 1.12                | 12.47      |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 20                  | 11.98    | 1.12                | 12.47      |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 20                  | 11.98    | 0.58                | 11.71      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 20                  | 11.98    | 0.21                | 12.0       |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 20                  | 11.98    | 0.22                | 12.02      |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 20                  | 11.98    | 0.08                | 12.02      |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 20                  | 11.98    | 0.08                | 12.02      |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 20                  | 11.97    | 0.31                | 11.85      |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 20                  | 11.97    | 0.31                | 11.85      |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 20                  | 11.97    | 0.19                | 11.93      |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 20                  | 11.96    | 0.39                | 11.94      |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 20                  | 11.96    | 0.39                | 11.94      |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 20                  | 11.96    | 0.12                | 11.98      |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 20                  | 11.96    | 0.12                | 11.98      |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 20                  | 11.96    | 0.29                | 11.9       |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 20                  | 11.96    | 0.29                | 11.9       |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 20                  | 11.96    | 0.21                | 11.98      |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 20                  | 11.96    | 0.21                | 11.98      |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 20                  | 11.96    | 0.21                | 11.98      |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 20                  | 11.96    | 0.21                | 11.98      |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 20                  | 11.96    | 2.43                | 12.34      |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 20                  | 11.95    | 0.27                | 11.97      |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 20                  | 11.95    | 0.28                | 12.08      |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 20                  | 11.95    | 0.92                | 12.42      |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 20                  | 11.95    | 0.92                | 12.42      |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 20                  | 11.94    | 1.92                | 12.37      |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 20                  | 11.94    | 0.6                 | 11.84      |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 20                  | 11.94    | 0.23                | 11.82      |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 20                  | 11.94    | 0.28                | 11.88      |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 20                  | 11.93    | 0.2                 | 11.98      |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 20                  | 11.93    | 0.83                | 11.88      |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 20                  | 11.93    | 0.83                | 11.88      |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 20                  | 11.92    | 0.22                | 11.92      |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 20                  | 11.92    | 1.94                | 12.44      |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 20                  | 11.92    | 1.94                | 12.44      |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 20                  | 11.91    | 0.12                | 11.92      |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 20                  | 11.91    | 0.12                | 11.92      |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 20                  | 11.9     | 0.17                | 11.86      |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 20                  | 11.9     | 0.42                | 11.92      |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 20                  | 11.9     | 0.42                | 11.92      |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 20                  | 11.9     | 3.42                | 11.19      |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 20                  | 11.9     | 0.12                | 11.83      |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 20                  | 11.9     | 0.17                | 11.98      |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 20                  | 11.89    | 0.66                | 11.78      |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 20                  | 11.89    | 0.26                | 11.96      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 20                  | 11.89    | 0.26                | 11.96      |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 20                  | 11.89    | 0.71                | 11.68      |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 20                  | 11.89    | 0.71                | 11.68      |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 20                  | 11.89    | 0.71                | 11.68      |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 20                  | 11.89    | 0.71                | 11.68      |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 20                  | 11.88    | 1.49                | 11.92      |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 20                  | 11.88    | 1.49                | 11.92      |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 20                  | 11.88    | 1.49                | 11.92      |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 20                  | 11.87    | 0.15                | 11.89      |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 20                  | 11.87    | 1.3                 | 11.44      |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 20                  | 11.87    | 1.3                 | 11.44      |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 20                  | 11.87    | 1.61                | 11.66      |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 20                  | 11.87    | 1.61                | 11.66      |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 20                  | 11.86    | 0.14                | 11.86      |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 20                  | 11.86    | 0.15                | 11.88      |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 20                  | 11.86    | 0.15                | 11.88      |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2 | 20                  | 11.86    | 0.9                 | 12.46      |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3 | 20                  | 11.86    | 0.9                 | 12.46      |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 20                  | 11.84    | 0.17                | 11.82      |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 20                  | 11.84    | 0.27                | 11.8       |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 20                  | 11.84    | 0.27                | 11.8       |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 20                  | 11.84    | 0.29                | 11.81      |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 20                  | 11.83    | 0.11                | 11.84      |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H   | 20                  | 11.83    | 1.49                | 10.86      |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H   | 20                  | 11.83    | 1.49                | 10.86      |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 20                  | 11.82    | 0.3                 | 11.77      |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 20                  | 11.82    | 0.3                 | 11.77      |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 20                  | 11.82    | 0.13                | 11.79      |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 20                  | 11.81    | 0.14                | 11.82      |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2 | 20                  | 11.81    | 0.18                | 11.79      |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3 | 20                  | 11.81    | 0.18                | 11.79      |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA  | 20                  | 11.81    | 0.75                | 11.9       |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA  | 20                  | 11.81    | 0.75                | 11.9       |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 20                  | 11.8     | 0.11                | 11.82      |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 20                  | 11.8     | 0.11                | 11.82      |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 20                  | 11.8     | 0.08                | 11.8       |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 20                  | 11.8     | 0.08                | 11.8       |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 20                  | 11.8     | 0.23                | 11.84      |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 20                  | 11.79    | 0.28                | 11.86      |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 20                  | 11.79    | 0.28                | 11.86      |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 20                  | 11.79    | 0.27                | 11.76      |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 20                  | 11.79    | 1.22                | 11.82      |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1818) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HA  | 20                  | 11.79    | 0.18                | 11.76      |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2 | 20                  | 11.78    | 0.61                | 12.06      |
| (1,623)  | 1:A:2:GLY:H     | 1:A:16:GLY:HA3 | 20                  | 11.78    | 1.23                | 12.18      |
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 20                  | 11.78    | 0.11                | 11.76      |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 20                  | 11.78    | 0.12                | 11.74      |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG2 | 20                  | 11.77    | 0.8                 | 11.39      |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG3 | 20                  | 11.77    | 0.8                 | 11.39      |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 20                  | 11.77    | 1.55                | 11.85      |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 20                  | 11.76    | 0.12                | 11.78      |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H   | 20                  | 11.76    | 0.25                | 11.64      |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA  | 20                  | 11.76    | 0.13                | 11.74      |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA2 | 20                  | 11.76    | 0.15                | 11.7       |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA3 | 20                  | 11.76    | 0.15                | 11.7       |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 20                  | 11.76    | 0.3                 | 11.9       |
| (1,2429) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HB3 | 20                  | 11.75    | 0.57                | 11.71      |
| (1,2429) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HB3 | 20                  | 11.75    | 0.57                | 11.71      |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE  | 20                  | 11.75    | 1.84                | 11.66      |
| (1,3300) | 1:A:15:ARG:HB2  | 1:A:24:GLY:H   | 20                  | 11.75    | 0.77                | 11.56      |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2 | 20                  | 11.74    | 1.63                | 11.74      |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD1 | 20                  | 11.73    | 0.13                | 11.74      |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD2 | 20                  | 11.73    | 0.13                | 11.74      |
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA  | 20                  | 11.72    | 0.35                | 11.79      |
| (1,2102) | 1:A:8:GLY:HA2   | 1:A:35:HIS:H   | 20                  | 11.72    | 1.86                | 10.64      |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 20                  | 11.72    | 0.17                | 11.78      |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 20                  | 11.72    | 0.17                | 11.78      |
| (1,3252) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HG3 | 20                  | 11.71    | 1.16                | 11.42      |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA  | 20                  | 11.71    | 0.41                | 11.96      |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2 | 20                  | 11.71    | 0.22                | 11.71      |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3 | 20                  | 11.71    | 0.22                | 11.71      |
| (1,2434) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HG  | 20                  | 11.7     | 0.14                | 11.72      |
| (1,2434) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HG  | 20                  | 11.7     | 0.14                | 11.72      |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE1 | 20                  | 11.69    | 0.21                | 11.58      |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE2 | 20                  | 11.69    | 0.21                | 11.58      |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA  | 20                  | 11.68    | 0.12                | 11.64      |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2 | 20                  | 11.68    | 0.07                | 11.7       |
| (1,2464) | 1:A:10:GLY:H    | 1:A:19:CYS:HB3 | 20                  | 11.67    | 0.09                | 11.68      |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 20                  | 11.67    | 0.49                | 11.7       |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3 | 20                  | 11.67    | 0.68                | 11.78      |
| (1,2217) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HB2 | 20                  | 11.67    | 0.28                | 11.74      |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3 | 20                  | 11.66    | 0.1                 | 11.67      |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H   | 20                  | 11.66    | 0.22                | 11.66      |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H   | 20                  | 11.66    | 0.85                | 11.48      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 20                  | 11.66    | 0.18                | 11.66      |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 20                  | 11.66    | 0.18                | 11.66      |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 20                  | 11.66    | 3.21                | 12.33      |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 20                  | 11.65    | 0.13                | 11.69      |
| (1,2454) | 1:A:9:PRO:HD2   | 1:A:33:CYS:H    | 20                  | 11.65    | 0.2                 | 11.72      |
| (1,2454) | 1:A:9:PRO:HD3   | 1:A:33:CYS:H    | 20                  | 11.65    | 0.2                 | 11.72      |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA   | 20                  | 11.65    | 0.07                | 11.61      |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 20                  | 11.64    | 0.22                | 11.7       |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2  | 20                  | 11.64    | 0.12                | 11.67      |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2  | 20                  | 11.64    | 0.12                | 11.67      |
| (1,1290) | 1:A:4:ASN:HD21  | 1:A:28:SER:H    | 20                  | 11.64    | 0.22                | 11.66      |
| (1,1498) | 1:A:5:GLY:HA3   | 1:A:34:ALA:H    | 20                  | 11.63    | 0.23                | 11.62      |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 20                  | 11.62    | 0.74                | 11.44      |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 20                  | 11.62    | 0.74                | 11.44      |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2  | 20                  | 11.62    | 0.17                | 11.58      |
| (1,1966) | 1:A:7:CYS:H     | 1:A:31:LYS:HE2  | 20                  | 11.62    | 1.08                | 11.78      |
| (1,1966) | 1:A:7:CYS:H     | 1:A:31:LYS:HE3  | 20                  | 11.62    | 1.08                | 11.78      |
| (1,2838) | 1:A:11:TRP:HE1  | 1:A:15:ARG:H    | 20                  | 11.62    | 0.58                | 11.34      |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1  | 20                  | 11.61    | 0.33                | 11.66      |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2  | 20                  | 11.61    | 0.33                | 11.66      |
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA   | 20                  | 11.61    | 0.31                | 11.56      |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA   | 20                  | 11.61    | 0.31                | 11.56      |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 20                  | 11.6     | 0.22                | 11.64      |
| (1,1935) | 1:A:7:CYS:H     | 1:A:17:GLY:HA2  | 20                  | 11.6     | 0.24                | 11.48      |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 20                  | 11.6     | 1.5                 | 11.98      |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 20                  | 11.6     | 1.5                 | 11.98      |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 20                  | 11.6     | 1.5                 | 11.98      |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 20                  | 11.59    | 0.26                | 11.52      |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 20                  | 11.59    | 0.26                | 11.52      |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE21 | 20                  | 11.59    | 0.82                | 11.66      |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE22 | 20                  | 11.59    | 0.82                | 11.66      |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA   | 20                  | 11.58    | 0.68                | 11.74      |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 20                  | 11.57    | 0.12                | 11.58      |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3  | 20                  | 11.56    | 0.56                | 11.44      |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 20                  | 11.56    | 0.83                | 11.64      |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 20                  | 11.56    | 0.83                | 11.64      |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1  | 20                  | 11.56    | 3.76                | 10.79      |
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2   | 20                  | 11.56    | 0.06                | 11.54      |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2  | 20                  | 11.55    | 0.13                | 11.54      |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 20                  | 11.54    | 1.26                | 11.72      |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 20                  | 11.54    | 1.26                | 11.72      |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG2  | 20                  | 11.54    | 1.51                | 11.58      |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG3 | 20                  | 11.54    | 1.51                | 11.58      |
| (1,1578) | 1:A:6:GLN:HA    | 1:A:31:LYS:HZ1 | 20                  | 11.54    | 1.22                | 11.74      |
| (1,1578) | 1:A:6:GLN:HA    | 1:A:31:LYS:HZ2 | 20                  | 11.54    | 1.22                | 11.74      |
| (1,1578) | 1:A:6:GLN:HA    | 1:A:31:LYS:HZ3 | 20                  | 11.54    | 1.22                | 11.74      |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1 | 20                  | 11.53    | 0.27                | 11.56      |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2 | 20                  | 11.53    | 0.27                | 11.56      |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1 | 20                  | 11.53    | 0.27                | 11.56      |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2 | 20                  | 11.53    | 0.27                | 11.56      |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG  | 20                  | 11.53    | 0.38                | 11.46      |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG  | 20                  | 11.53    | 0.42                | 11.7       |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2 | 20                  | 11.52    | 0.31                | 11.45      |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3 | 20                  | 11.52    | 0.31                | 11.45      |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H   | 20                  | 11.52    | 0.38                | 11.4       |
| (1,2321) | 1:A:9:PRO:HG2   | 1:A:21:SER:HB2 | 20                  | 11.51    | 0.32                | 11.64      |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2 | 20                  | 11.51    | 0.09                | 11.55      |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3 | 20                  | 11.51    | 0.09                | 11.55      |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1 | 20                  | 11.51    | 0.93                | 11.5       |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2 | 20                  | 11.51    | 0.93                | 11.5       |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1 | 20                  | 11.51    | 0.3                 | 11.44      |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2 | 20                  | 11.51    | 0.3                 | 11.44      |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3 | 20                  | 11.5     | 0.3                 | 11.54      |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA  | 20                  | 11.5     | 0.19                | 11.51      |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 20                  | 11.5     | 1.52                | 11.18      |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3 | 20                  | 11.5     | 0.95                | 12.22      |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA2 | 20                  | 11.49    | 0.16                | 11.48      |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA3 | 20                  | 11.49    | 0.16                | 11.48      |
| (1,2489) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HB2 | 20                  | 11.49    | 0.86                | 11.62      |
| (1,2489) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HB3 | 20                  | 11.49    | 0.86                | 11.62      |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG  | 20                  | 11.48    | 0.21                | 11.44      |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2 | 20                  | 11.48    | 0.37                | 11.4       |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG2 | 20                  | 11.48    | 1.31                | 11.26      |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG3 | 20                  | 11.48    | 1.31                | 11.26      |
| (1,2165) | 1:A:9:PRO:HA    | 1:A:23:TYR:HB3 | 20                  | 11.48    | 0.24                | 11.51      |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H   | 20                  | 11.47    | 0.17                | 11.56      |
| (1,2212) | 1:A:9:PRO:HB2   | 1:A:21:SER:HG  | 20                  | 11.47    | 0.24                | 11.5       |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3 | 20                  | 11.47    | 0.34                | 11.5       |
| (1,2109) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HG  | 20                  | 11.47    | 0.14                | 11.48      |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 20                  | 11.46    | 1.34                | 11.54      |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 20                  | 11.46    | 1.34                | 11.54      |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H   | 20                  | 11.46    | 1.01                | 11.7       |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H   | 20                  | 11.46    | 1.01                | 11.7       |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB2 | 20                  | 11.46    | 0.14                | 11.45      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 20                  | 11.46    | 0.14                | 11.45      |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 20                  | 11.46    | 1.16                | 11.68      |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 20                  | 11.46    | 1.16                | 11.68      |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 20                  | 11.46    | 1.16                | 11.68      |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 20                  | 11.45    | 0.23                | 11.49      |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1 | 20                  | 11.44    | 1.93                | 11.7       |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 20                  | 11.44    | 0.14                | 11.45      |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 20                  | 11.44    | 0.14                | 11.45      |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 20                  | 11.43    | 0.09                | 11.46      |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 20                  | 11.42    | 0.32                | 11.56      |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 20                  | 11.42    | 0.3                 | 11.36      |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 20                  | 11.42    | 0.21                | 11.4       |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H   | 20                  | 11.42    | 0.22                | 11.36      |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 20                  | 11.41    | 0.16                | 11.32      |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1 | 20                  | 11.41    | 0.35                | 11.4       |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2 | 20                  | 11.41    | 0.35                | 11.4       |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG  | 20                  | 11.41    | 0.23                | 11.27      |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1 | 20                  | 11.41    | 0.24                | 11.34      |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2 | 20                  | 11.41    | 0.24                | 11.34      |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 20                  | 11.41    | 0.2                 | 11.45      |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 20                  | 11.39    | 0.22                | 11.43      |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 20                  | 11.38    | 0.74                | 11.32      |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 20                  | 11.38    | 0.18                | 11.4       |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 20                  | 11.38    | 0.18                | 11.4       |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 20                  | 11.37    | 0.14                | 11.4       |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3 | 20                  | 11.37    | 0.3                 | 11.48      |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2 | 20                  | 11.37    | 3.7                 | 10.42      |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3 | 20                  | 11.36    | 0.54                | 11.66      |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 20                  | 11.36    | 0.28                | 11.32      |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 20                  | 11.36    | 0.28                | 11.32      |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2 | 20                  | 11.35    | 1.45                | 11.36      |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3 | 20                  | 11.35    | 1.45                | 11.36      |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 20                  | 11.34    | 0.55                | 11.33      |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 20                  | 11.34    | 0.55                | 11.33      |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2 | 20                  | 11.34    | 0.96                | 11.0       |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3 | 20                  | 11.34    | 0.96                | 11.0       |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 20                  | 11.33    | 0.39                | 11.42      |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 20                  | 11.33    | 0.39                | 11.42      |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H   | 20                  | 11.33    | 0.2                 | 11.3       |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 20                  | 11.33    | 0.18                | 11.33      |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 20                  | 11.33    | 0.18                | 11.33      |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 20                  | 11.32    | 0.17                | 11.31      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2169) | 1:A:9:PRO:HA    | 1:A:25:TYR:HB3  | 20                  | 11.32    | 0.18                | 11.38      |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2   | 20                  | 11.31    | 0.54                | 11.62      |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3   | 20                  | 11.31    | 0.54                | 11.62      |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2  | 20                  | 11.31    | 0.33                | 11.38      |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2  | 20                  | 11.31    | 0.14                | 11.24      |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3  | 20                  | 11.31    | 0.14                | 11.24      |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2  | 20                  | 11.31    | 0.14                | 11.38      |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3  | 20                  | 11.31    | 0.14                | 11.38      |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1  | 20                  | 11.31    | 0.29                | 11.18      |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2  | 20                  | 11.31    | 0.29                | 11.18      |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 20                  | 11.31    | 3.15                | 10.54      |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 20                  | 11.3     | 0.7                 | 11.35      |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 20                  | 11.3     | 0.7                 | 11.35      |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 20                  | 11.3     | 0.7                 | 11.35      |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 20                  | 11.3     | 0.7                 | 11.35      |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 20                  | 11.3     | 0.48                | 11.55      |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 20                  | 11.3     | 1.31                | 11.74      |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2  | 20                  | 11.29    | 0.13                | 11.24      |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3  | 20                  | 11.29    | 0.13                | 11.24      |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 20                  | 11.29    | 0.15                | 11.32      |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 20                  | 11.29    | 0.5                 | 11.41      |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 20                  | 11.29    | 0.5                 | 11.41      |
| (1,2539) | 1:A:10:GLY:HA3  | 1:A:20:CYS:H    | 20                  | 11.28    | 0.07                | 11.3       |
| (1,1977) | 1:A:7:CYS:HA    | 1:A:32:TYR:H    | 20                  | 11.28    | 0.13                | 11.28      |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG2  | 20                  | 11.28    | 1.42                | 11.2       |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG3  | 20                  | 11.28    | 1.42                | 11.2       |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 20                  | 11.28    | 0.1                 | 11.26      |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 20                  | 11.28    | 0.1                 | 11.26      |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H    | 20                  | 11.27    | 0.14                | 11.28      |
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA   | 20                  | 11.27    | 0.17                | 11.24      |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB2  | 20                  | 11.26    | 0.05                | 11.28      |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB3  | 20                  | 11.26    | 0.05                | 11.28      |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H    | 20                  | 11.26    | 0.16                | 11.3       |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA   | 20                  | 11.26    | 0.96                | 11.68      |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA   | 20                  | 11.26    | 0.96                | 11.68      |
| (1,1817) | 1:A:6:GLN:HE21  | 1:A:19:CYS:H    | 20                  | 11.26    | 0.22                | 11.22      |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1  | 20                  | 11.26    | 0.33                | 11.14      |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2  | 20                  | 11.26    | 0.33                | 11.14      |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 20                  | 11.26    | 0.83                | 11.38      |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 20                  | 11.26    | 0.83                | 11.38      |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE1  | 20                  | 11.26    | 0.08                | 11.28      |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE2  | 20                  | 11.26    | 0.08                | 11.28      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE1  | 20                  | 11.25    | 0.3                 | 11.29      |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE2  | 20                  | 11.25    | 0.3                 | 11.29      |
| (1,2690) | 1:A:11:TRP:HB3  | 1:A:22:GLN:H    | 20                  | 11.24    | 0.05                | 11.25      |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD1  | 20                  | 11.24    | 0.21                | 11.29      |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD2  | 20                  | 11.24    | 0.21                | 11.29      |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA   | 20                  | 11.24    | 0.29                | 11.11      |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 20                  | 11.24    | 1.25                | 11.27      |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 20                  | 11.24    | 1.25                | 11.27      |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 20                  | 11.23    | 0.5                 | 11.3       |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2  | 20                  | 11.23    | 0.12                | 11.2       |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3  | 20                  | 11.23    | 0.12                | 11.2       |
| (1,1543) | 1:A:6:GLN:H     | 1:A:33:CYS:HA   | 20                  | 11.22    | 0.17                | 11.2       |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 20                  | 11.22    | 0.21                | 11.25      |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 20                  | 11.22    | 0.17                | 11.24      |
| (1,2333) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HB3  | 20                  | 11.21    | 0.23                | 11.28      |
| (1,1884) | 1:A:6:GLN:HE22  | 1:A:19:CYS:H    | 20                  | 11.21    | 0.24                | 11.2       |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG   | 20                  | 11.21    | 0.31                | 11.16      |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H    | 20                  | 11.21    | 0.57                | 11.31      |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 20                  | 11.2     | 0.22                | 11.18      |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 20                  | 11.2     | 0.22                | 11.18      |
| (1,1749) | 1:A:6:GLN:HG3   | 1:A:15:ARG:HA   | 20                  | 11.19    | 0.75                | 10.98      |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA   | 20                  | 11.19    | 0.26                | 11.22      |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 20                  | 11.19    | 0.74                | 11.28      |
| (1,1602) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HB2  | 20                  | 11.19    | 0.19                | 11.26      |
| (1,2503) | 1:A:10:GLY:HA2  | 1:A:25:TYR:H    | 20                  | 11.19    | 0.16                | 11.2       |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 20                  | 11.18    | 0.3                 | 11.12      |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H    | 20                  | 11.18    | 0.78                | 11.38      |
| (1,2470) | 1:A:10:GLY:H    | 1:A:23:TYR:H    | 20                  | 11.17    | 0.21                | 11.26      |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 20                  | 11.17    | 1.11                | 11.4       |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2  | 20                  | 11.17    | 0.18                | 11.17      |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3  | 20                  | 11.17    | 0.18                | 11.17      |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H    | 20                  | 11.17    | 0.21                | 11.2       |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 20                  | 11.16    | 0.23                | 11.14      |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 20                  | 11.16    | 0.23                | 11.14      |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 20                  | 11.16    | 1.04                | 11.1       |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 20                  | 11.16    | 1.04                | 11.1       |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H    | 20                  | 11.16    | 0.15                | 11.18      |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 20                  | 11.16    | 0.86                | 11.34      |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H    | 20                  | 11.16    | 0.23                | 11.12      |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H    | 20                  | 11.16    | 0.23                | 11.12      |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB2   | 20                  | 11.16    | 0.56                | 11.45      |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB3   | 20                  | 11.16    | 0.56                | 11.45      |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H   | 20                  | 11.15    | 0.16                | 11.1       |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG  | 20                  | 11.15    | 0.8                 | 11.07      |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB2 | 20                  | 11.15    | 0.25                | 11.1       |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB3 | 20                  | 11.15    | 0.25                | 11.1       |
| (1,1260) | 1:A:4:ASN:HD21  | 1:A:14:CYS:H   | 20                  | 11.14    | 0.4                 | 11.34      |
| (1,2744) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HG2 | 20                  | 11.14    | 0.62                | 10.9       |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H   | 20                  | 11.14    | 0.13                | 11.14      |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2 | 20                  | 11.14    | 0.17                | 11.16      |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3 | 20                  | 11.14    | 0.17                | 11.16      |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H   | 20                  | 11.13    | 0.18                | 11.12      |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG  | 20                  | 11.12    | 0.34                | 11.1       |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 20                  | 11.12    | 0.05                | 11.11      |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2 | 20                  | 11.12    | 0.25                | 11.03      |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1 | 20                  | 11.12    | 2.08                | 11.34      |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 20                  | 11.12    | 0.63                | 11.09      |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2 | 20                  | 11.11    | 0.04                | 11.12      |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3 | 20                  | 11.11    | 0.04                | 11.12      |
| (1,1558) | 1:A:6:GLN:HA    | 1:A:15:ARG:HE  | 20                  | 11.11    | 1.62                | 11.04      |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 20                  | 11.1     | 0.12                | 11.16      |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 20                  | 11.1     | 0.12                | 11.16      |
| (1,2680) | 1:A:11:TRP:HB3  | 1:A:16:GLY:H   | 20                  | 11.09    | 0.59                | 10.78      |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB2 | 20                  | 11.08    | 1.01                | 11.05      |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB3 | 20                  | 11.08    | 1.01                | 11.05      |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3 | 20                  | 11.08    | 0.06                | 11.08      |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB1 | 20                  | 11.07    | 0.9                 | 11.67      |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB2 | 20                  | 11.07    | 0.9                 | 11.67      |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB3 | 20                  | 11.07    | 0.9                 | 11.67      |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA  | 20                  | 11.07    | 0.11                | 11.08      |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG2 | 20                  | 11.07    | 0.99                | 10.46      |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG3 | 20                  | 11.07    | 0.99                | 10.46      |
| (1,2781) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HA  | 20                  | 11.07    | 0.64                | 11.14      |
| (1,2541) | 1:A:10:GLY:HA3  | 1:A:21:SER:H   | 20                  | 11.05    | 0.13                | 11.1       |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H   | 20                  | 11.04    | 0.39                | 11.1       |
| (1,2590) | 1:A:11:TRP:H    | 1:A:19:CYS:HB3 | 20                  | 11.03    | 0.07                | 11.04      |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 20                  | 11.03    | 1.26                | 11.64      |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA  | 20                  | 11.03    | 0.12                | 11.04      |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H   | 20                  | 11.03    | 0.11                | 11.01      |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB2 | 20                  | 11.03    | 0.07                | 11.02      |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB3 | 20                  | 11.03    | 0.07                | 11.02      |
| (1,2270) | 1:A:9:PRO:HB3   | 1:A:26:CYS:H   | 20                  | 11.02    | 0.16                | 11.03      |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 20                  | 11.02    | 1.38                | 10.76      |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 20                  | 11.02    | 1.38                | 10.76      |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 20                  | 11.02    | 1.38                | 10.76      |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA  | 20                  | 11.01    | 0.2                 | 11.04      |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 20                  | 11.01    | 1.84                | 11.56      |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1 | 20                  | 11.01    | 0.31                | 10.94      |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2 | 20                  | 11.01    | 0.31                | 10.94      |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2 | 20                  | 11.0     | 0.72                | 10.63      |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1 | 20                  | 10.98    | 0.86                | 10.74      |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2 | 20                  | 10.98    | 0.86                | 10.74      |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H   | 20                  | 10.98    | 0.14                | 10.95      |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB1 | 20                  | 10.98    | 0.63                | 11.29      |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB2 | 20                  | 10.98    | 0.63                | 11.29      |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB3 | 20                  | 10.98    | 0.63                | 11.29      |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 20                  | 10.98    | 0.42                | 11.1       |
| (1,1825) | 1:A:6:GLN:HE21  | 1:A:22:GLN:H   | 20                  | 10.97    | 0.24                | 10.96      |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2 | 20                  | 10.96    | 2.14                | 10.36      |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2 | 20                  | 10.96    | 2.14                | 10.36      |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 20                  | 10.96    | 2.14                | 10.36      |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 20                  | 10.96    | 2.14                | 10.36      |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1 | 20                  | 10.95    | 0.09                | 10.98      |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2 | 20                  | 10.95    | 0.09                | 10.98      |
| (1,1852) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HB2 | 20                  | 10.95    | 0.15                | 10.94      |
| (1,1852) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HB3 | 20                  | 10.95    | 0.15                | 10.94      |
| (1,1807) | 1:A:6:GLN:HE21  | 1:A:15:ARG:H   | 20                  | 10.94    | 0.79                | 10.6       |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2 | 20                  | 10.94    | 0.21                | 10.9       |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA  | 20                  | 10.93    | 0.27                | 10.93      |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA  | 20                  | 10.93    | 0.27                | 10.93      |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG2 | 20                  | 10.93    | 1.3                 | 10.91      |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG3 | 20                  | 10.93    | 1.3                 | 10.91      |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2 | 20                  | 10.93    | 0.07                | 10.93      |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3 | 20                  | 10.93    | 0.07                | 10.93      |
| (1,2216) | 1:A:9:PRO:HB2   | 1:A:23:TYR:H   | 20                  | 10.92    | 0.3                 | 11.04      |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 20                  | 10.92    | 0.11                | 10.96      |
| (1,2641) | 1:A:11:TRP:HB2  | 1:A:16:GLY:H   | 20                  | 10.92    | 0.42                | 10.8       |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 20                  | 10.92    | 0.82                | 11.26      |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2 | 20                  | 10.92    | 0.89                | 10.8       |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2 | 20                  | 10.92    | 0.89                | 10.8       |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3 | 20                  | 10.92    | 0.89                | 10.8       |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3 | 20                  | 10.92    | 0.89                | 10.8       |
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2 | 20                  | 10.91    | 0.34                | 10.92      |
| (1,1637) | 1:A:6:GLN:HB3   | 1:A:18:LEU:H   | 20                  | 10.91    | 0.11                | 10.9       |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1 | 20                  | 10.91    | 0.33                | 10.77      |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2 | 20                  | 10.91    | 0.33                | 10.77      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 20                  | 10.91    | 0.24                | 10.87      |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 20                  | 10.91    | 0.24                | 10.87      |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 20                  | 10.91    | 0.93                | 10.92      |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 20                  | 10.91    | 0.93                | 10.92      |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 20                  | 10.91    | 0.93                | 10.92      |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 20                  | 10.91    | 0.14                | 10.92      |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 20                  | 10.91    | 0.14                | 10.92      |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 20                  | 10.9     | 0.63                | 10.92      |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 20                  | 10.9     | 0.63                | 10.92      |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 20                  | 10.9     | 0.77                | 11.07      |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 20                  | 10.9     | 0.77                | 11.07      |
| (1,1820) | 1:A:6:GLN:HE21  | 1:A:20:CYS:H    | 20                  | 10.89    | 0.12                | 10.89      |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 20                  | 10.89    | 0.12                | 10.84      |
| (1,2159) | 1:A:9:PRO:HA    | 1:A:21:SER:HG   | 20                  | 10.89    | 0.21                | 10.94      |
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA    | 20                  | 10.88    | 0.16                | 10.88      |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3  | 20                  | 10.88    | 1.0                 | 11.36      |
| (1,1826) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HA   | 20                  | 10.88    | 0.26                | 10.92      |
| (1,2218) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HD1  | 20                  | 10.87    | 0.25                | 10.92      |
| (1,2218) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HD2  | 20                  | 10.87    | 0.25                | 10.92      |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB2  | 20                  | 10.86    | 0.93                | 10.52      |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB3  | 20                  | 10.86    | 0.93                | 10.52      |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H    | 20                  | 10.86    | 0.16                | 10.82      |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 20                  | 10.86    | 1.63                | 11.82      |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 20                  | 10.85    | 0.17                | 10.86      |
| (1,1934) | 1:A:7:CYS:H     | 1:A:17:GLY:H    | 20                  | 10.85    | 0.26                | 10.76      |
| (1,1262) | 1:A:4:ASN:HD21  | 1:A:15:ARG:H    | 20                  | 10.85    | 0.86                | 10.65      |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1  | 20                  | 10.85    | 1.12                | 10.64      |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2  | 20                  | 10.85    | 1.12                | 10.64      |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3  | 20                  | 10.85    | 1.12                | 10.64      |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG   | 20                  | 10.84    | 0.17                | 10.86      |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 20                  | 10.84    | 0.8                 | 11.16      |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 20                  | 10.84    | 0.8                 | 11.16      |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 20                  | 10.84    | 0.77                | 10.8       |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 20                  | 10.84    | 0.77                | 10.8       |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 20                  | 10.83    | 0.18                | 10.8       |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 20                  | 10.83    | 0.18                | 10.8       |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 20                  | 10.83    | 0.19                | 10.82      |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 20                  | 10.83    | 0.19                | 10.82      |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 20                  | 10.83    | 0.19                | 10.82      |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 20                  | 10.83    | 0.19                | 10.82      |
| (1,2962) | 1:A:11:TRP:HH2  | 1:A:13:GLY:HA3  | 20                  | 10.83    | 0.1                 | 10.86      |
| (1,1888) | 1:A:6:GLN:HE22  | 1:A:20:CYS:HB3  | 20                  | 10.83    | 0.11                | 10.83      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H   | 20                  | 10.83    | 1.28                | 11.54      |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 20                  | 10.82    | 0.17                | 10.85      |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 20                  | 10.82    | 0.17                | 10.85      |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2 | 20                  | 10.81    | 1.95                | 11.26      |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3 | 20                  | 10.81    | 1.95                | 11.26      |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3 | 20                  | 10.8     | 1.0                 | 11.02      |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2 | 20                  | 10.79    | 3.51                | 9.98       |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 20                  | 10.79    | 0.12                | 10.82      |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2 | 20                  | 10.79    | 0.55                | 11.12      |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 20                  | 10.78    | 0.25                | 10.88      |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 20                  | 10.78    | 0.83                | 10.8       |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 20                  | 10.78    | 0.83                | 10.8       |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 20                  | 10.78    | 1.16                | 11.48      |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 20                  | 10.78    | 1.16                | 11.48      |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 20                  | 10.78    | 1.16                | 11.48      |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H   | 20                  | 10.78    | 0.22                | 10.76      |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 20                  | 10.78    | 0.58                | 11.1       |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 20                  | 10.78    | 0.05                | 10.8       |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3 | 20                  | 10.78    | 0.05                | 10.8       |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H   | 20                  | 10.78    | 1.27                | 9.85       |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 20                  | 10.77    | 0.35                | 10.83      |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 20                  | 10.77    | 0.12                | 10.76      |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA  | 20                  | 10.77    | 0.07                | 10.79      |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA  | 20                  | 10.76    | 0.26                | 10.86      |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA  | 20                  | 10.76    | 0.26                | 10.86      |
| (1,4258) | 1:A:22:GLN:HG3 | 1:A:29:GLY:H   | 20                  | 10.76    | 1.26                | 11.24      |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG  | 20                  | 10.75    | 0.18                | 10.74      |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 20                  | 10.75    | 0.38                | 10.75      |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 20                  | 10.75    | 0.13                | 10.71      |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 20                  | 10.74    | 1.01                | 10.46      |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 20                  | 10.74    | 1.01                | 10.46      |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2 | 20                  | 10.74    | 1.0                 | 10.16      |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3 | 20                  | 10.74    | 1.0                 | 10.16      |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H   | 20                  | 10.74    | 0.67                | 10.43      |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 20                  | 10.73    | 0.47                | 11.0       |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 20                  | 10.73    | 0.47                | 11.0       |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 20                  | 10.73    | 0.3                 | 10.8       |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H   | 20                  | 10.72    | 0.76                | 10.96      |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H   | 20                  | 10.72    | 0.2                 | 10.77      |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2 | 20                  | 10.72    | 0.28                | 10.73      |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA  | 20                  | 10.71    | 0.15                | 10.69      |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3 | 20                  | 10.7     | 0.6                 | 10.73      |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3 | 20                  | 10.7     | 0.6                 | 10.73      |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 20                  | 10.69    | 0.65                | 10.78      |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 20                  | 10.69    | 0.65                | 10.78      |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA  | 20                  | 10.69    | 0.27                | 10.67      |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H   | 20                  | 10.68    | 0.14                | 10.7       |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3 | 20                  | 10.68    | 0.22                | 10.74      |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 20                  | 10.67    | 0.67                | 10.82      |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H   | 20                  | 10.67    | 0.3                 | 10.68      |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H   | 20                  | 10.66    | 0.26                | 10.68      |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H   | 20                  | 10.66    | 0.26                | 10.68      |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2 | 20                  | 10.66    | 1.84                | 11.37      |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1 | 20                  | 10.65    | 1.78                | 10.8       |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 20                  | 10.65    | 1.52                | 11.11      |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 20                  | 10.65    | 1.52                | 11.11      |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 20                  | 10.65    | 0.17                | 10.64      |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 20                  | 10.65    | 0.17                | 10.64      |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 20                  | 10.65    | 0.46                | 10.7       |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 20                  | 10.65    | 0.46                | 10.7       |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3 | 20                  | 10.65    | 0.28                | 10.61      |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H    | 20                  | 10.64    | 0.47                | 10.94      |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H   | 20                  | 10.63    | 0.2                 | 10.58      |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H   | 20                  | 10.63    | 0.14                | 10.63      |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1 | 20                  | 10.63    | 0.15                | 10.67      |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2 | 20                  | 10.63    | 0.15                | 10.67      |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 20                  | 10.63    | 0.26                | 10.62      |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 20                  | 10.62    | 0.62                | 10.92      |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA  | 20                  | 10.62    | 0.68                | 11.04      |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA   | 20                  | 10.62    | 0.1                 | 10.58      |
| (1,4000) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HD3 | 20                  | 10.62    | 0.11                | 10.64      |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 20                  | 10.62    | 0.37                | 10.8       |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG  | 20                  | 10.61    | 0.24                | 10.54      |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 20                  | 10.61    | 1.67                | 10.76      |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 20                  | 10.6     | 0.25                | 10.52      |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1 | 20                  | 10.6     | 0.09                | 10.61      |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2 | 20                  | 10.6     | 0.09                | 10.61      |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 20                  | 10.6     | 0.25                | 10.49      |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 20                  | 10.6     | 0.25                | 10.49      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 20                  | 10.59    | 0.2                 | 10.58      |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 20                  | 10.59    | 0.2                 | 10.58      |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 20                  | 10.59    | 2.42                | 10.5       |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 20                  | 10.59    | 2.42                | 10.5       |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG2  | 20                  | 10.59    | 0.06                | 10.57      |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG3  | 20                  | 10.59    | 0.06                | 10.57      |
| (1,3602) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HB3  | 20                  | 10.58    | 0.1                 | 10.56      |
| (1,4585) | 1:A:25:TYR:HE1 | 1:A:29:GLY:HA3  | 20                  | 10.58    | 0.16                | 10.6       |
| (1,4585) | 1:A:25:TYR:HE2 | 1:A:29:GLY:HA3  | 20                  | 10.58    | 0.16                | 10.6       |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 20                  | 10.58    | 0.23                | 10.66      |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 20                  | 10.56    | 0.89                | 10.58      |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 20                  | 10.56    | 0.89                | 10.58      |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 20                  | 10.56    | 0.19                | 10.65      |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 20                  | 10.56    | 0.61                | 10.62      |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 20                  | 10.56    | 0.12                | 10.5       |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 20                  | 10.56    | 0.56                | 10.34      |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 20                  | 10.56    | 0.56                | 10.34      |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H    | 20                  | 10.55    | 0.87                | 10.64      |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H    | 20                  | 10.55    | 0.87                | 10.64      |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 20                  | 10.55    | 0.2                 | 10.44      |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 20                  | 10.54    | 0.84                | 10.13      |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 20                  | 10.54    | 0.84                | 10.13      |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 20                  | 10.54    | 0.16                | 10.54      |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 20                  | 10.54    | 0.36                | 10.72      |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 20                  | 10.54    | 0.22                | 10.54      |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 20                  | 10.53    | 0.16                | 10.57      |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 20                  | 10.52    | 0.25                | 10.46      |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 20                  | 10.52    | 0.34                | 10.6       |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 20                  | 10.52    | 0.34                | 10.6       |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 20                  | 10.52    | 0.13                | 10.54      |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 20                  | 10.52    | 0.06                | 10.52      |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 20                  | 10.51    | 1.26                | 10.85      |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 20                  | 10.51    | 1.26                | 10.85      |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1  | 20                  | 10.5     | 0.82                | 10.64      |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2  | 20                  | 10.5     | 0.82                | 10.64      |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 20                  | 10.5     | 0.36                | 10.42      |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 20                  | 10.5     | 0.22                | 10.52      |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 20                  | 10.49    | 0.78                | 10.14      |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 20                  | 10.49    | 0.97                | 9.8        |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1  | 20                  | 10.49    | 0.27                | 10.39      |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2  | 20                  | 10.49    | 0.27                | 10.39      |
| (1,3301) | 1:A:15:ARG:HB2 | 1:A:24:GLY:HA2  | 20                  | 10.49    | 0.78                | 10.11      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2382) | 1:A:9:PRO:HG3   | 1:A:19:CYS:HA   | 20                  | 10.49    | 0.25                | 10.54      |
| (1,1933) | 1:A:7:CYS:H     | 1:A:16:GLY:H    | 20                  | 10.48    | 0.4                 | 10.4       |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2  | 20                  | 10.48    | 1.46                | 10.32      |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3  | 20                  | 10.48    | 1.46                | 10.32      |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1  | 20                  | 10.48    | 4.04                | 9.44       |
| (1,2392) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HB3  | 20                  | 10.48    | 0.29                | 10.54      |
| (1,2793) | 1:A:11:TRP:HE3  | 1:A:20:CYS:H    | 20                  | 10.48    | 0.17                | 10.52      |
| (1,1187) | 1:A:4:ASN:HB3   | 1:A:10:GLY:HA3  | 20                  | 10.48    | 0.32                | 10.55      |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 20                  | 10.48    | 1.74                | 10.47      |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 20                  | 10.47    | 0.16                | 10.54      |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 20                  | 10.47    | 0.16                | 10.54      |
| (1,2800) | 1:A:11:TRP:HE3  | 1:A:23:TYR:HB3  | 20                  | 10.46    | 0.13                | 10.44      |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 20                  | 10.46    | 0.04                | 10.45      |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H    | 20                  | 10.45    | 0.26                | 10.42      |
| (1,2010) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HB2  | 20                  | 10.45    | 0.54                | 10.74      |
| (1,2010) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HB2  | 20                  | 10.45    | 0.54                | 10.74      |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 20                  | 10.45    | 0.18                | 10.44      |
| (1,2769) | 1:A:11:TRP:HD1  | 1:A:32:TYR:HB2  | 20                  | 10.45    | 0.13                | 10.46      |
| (1,2769) | 1:A:11:TRP:HD1  | 1:A:32:TYR:HB3  | 20                  | 10.45    | 0.13                | 10.46      |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 20                  | 10.44    | 0.78                | 10.43      |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 20                  | 10.44    | 0.78                | 10.43      |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 20                  | 10.44    | 0.1                 | 10.46      |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2  | 20                  | 10.44    | 1.32                | 10.06      |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H    | 20                  | 10.44    | 0.86                | 9.87       |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 20                  | 10.43    | 0.3                 | 10.47      |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB2  | 20                  | 10.42    | 0.23                | 10.39      |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB3  | 20                  | 10.42    | 0.23                | 10.39      |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 20                  | 10.42    | 0.88                | 9.87       |
| (1,2507) | 1:A:10:GLY:HA2  | 1:A:26:CYS:H    | 20                  | 10.42    | 0.12                | 10.43      |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE21 | 20                  | 10.42    | 0.89                | 10.64      |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE22 | 20                  | 10.42    | 0.89                | 10.64      |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA   | 20                  | 10.42    | 0.09                | 10.41      |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 20                  | 10.41    | 0.71                | 10.52      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD11 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD12 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD13 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD21 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD22 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD23 | 20                  | 10.41    | 0.15                | 10.35      |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H     | 20                  | 10.41    | 0.05                | 10.42      |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 20                  | 10.39    | 0.15                | 10.42      |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 20                  | 10.39    | 0.15                | 10.42      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3  | 20                  | 10.37    | 0.14                | 10.3       |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 20                  | 10.37    | 0.69                | 10.49      |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 20                  | 10.37    | 0.69                | 10.49      |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA   | 20                  | 10.36    | 0.06                | 10.39      |
| (1,2389) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HE21 | 20                  | 10.36    | 1.47                | 10.76      |
| (1,2389) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HE22 | 20                  | 10.36    | 1.47                | 10.76      |
| (1,2211) | 1:A:9:PRO:HB2   | 1:A:21:SER:H    | 20                  | 10.35    | 0.22                | 10.41      |
| (1,2092) | 1:A:8:GLY:HA2   | 1:A:27:GLY:HA3  | 20                  | 10.35    | 0.18                | 10.39      |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H    | 20                  | 10.34    | 0.89                | 10.0       |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 20                  | 10.33    | 0.05                | 10.33      |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H    | 20                  | 10.33    | 0.13                | 10.31      |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 20                  | 10.33    | 0.18                | 10.38      |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 20                  | 10.33    | 0.17                | 10.32      |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 20                  | 10.33    | 0.17                | 10.32      |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 20                  | 10.33    | 0.17                | 10.32      |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 20                  | 10.33    | 0.17                | 10.32      |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H    | 20                  | 10.33    | 0.16                | 10.27      |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG   | 20                  | 10.33    | 1.29                | 10.57      |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG   | 20                  | 10.33    | 1.29                | 10.57      |
| (1,2214) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HA   | 20                  | 10.33    | 0.39                | 10.53      |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2  | 20                  | 10.33    | 0.63                | 10.14      |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 20                  | 10.32    | 0.46                | 10.56      |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 20                  | 10.32    | 0.12                | 10.26      |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 20                  | 10.3     | 0.8                 | 10.3       |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 20                  | 10.3     | 0.8                 | 10.3       |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 20                  | 10.3     | 0.11                | 10.31      |
| (1,2386) | 1:A:9:PRO:HG3   | 1:A:21:SER:HG   | 20                  | 10.3     | 0.28                | 10.38      |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 20                  | 10.3     | 0.33                | 10.32      |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 20                  | 10.3     | 0.33                | 10.32      |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 20                  | 10.3     | 0.33                | 10.32      |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 20                  | 10.3     | 0.33                | 10.32      |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 20                  | 10.29    | 0.69                | 9.9        |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3  | 20                  | 10.29    | 0.26                | 10.2       |
| (1,2266) | 1:A:9:PRO:HB3   | 1:A:25:TYR:H    | 20                  | 10.29    | 0.25                | 10.34      |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 20                  | 10.27    | 0.27                | 10.24      |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 20                  | 10.27    | 0.27                | 10.24      |
| (1,2325) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HE21 | 20                  | 10.26    | 1.49                | 10.68      |
| (1,2325) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HE22 | 20                  | 10.26    | 1.49                | 10.68      |
| (1,1075) | 1:A:4:ASN:H     | 1:A:20:CYS:HB3  | 20                  | 10.26    | 0.16                | 10.24      |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2  | 20                  | 10.26    | 0.42                | 10.52      |
| (1,2322) | 1:A:9:PRO:HG2   | 1:A:21:SER:HG   | 20                  | 10.26    | 0.28                | 10.32      |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 20                  | 10.26    | 0.17                | 10.26      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3  | 20                  | 10.25    | 0.28                | 10.32      |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 20                  | 10.25    | 0.11                | 10.26      |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2  | 20                  | 10.25    | 0.13                | 10.29      |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 20                  | 10.25    | 0.13                | 10.29      |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1  | 20                  | 10.24    | 0.26                | 10.14      |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2  | 20                  | 10.24    | 0.26                | 10.14      |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 20                  | 10.24    | 0.09                | 10.26      |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 20                  | 10.24    | 0.88                | 9.87       |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 20                  | 10.24    | 0.88                | 9.87       |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 20                  | 10.24    | 0.21                | 10.34      |
| (1,4449) | 1:A:24:GLY:H   | 1:A:30:PRO:HB2  | 20                  | 10.23    | 0.07                | 10.2       |
| (1,4449) | 1:A:24:GLY:H   | 1:A:30:PRO:HB3  | 20                  | 10.23    | 0.07                | 10.2       |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 20                  | 10.22    | 1.0                 | 10.64      |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 20                  | 10.22    | 1.0                 | 10.64      |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 20                  | 10.22    | 0.11                | 10.2       |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3  | 20                  | 10.22    | 1.04                | 10.34      |
| (1,3584) | 1:A:17:GLY:H   | 1:A:34:ALA:HA   | 20                  | 10.22    | 0.61                | 10.16      |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 20                  | 10.21    | 0.22                | 10.22      |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 20                  | 10.21    | 0.22                | 10.22      |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 20                  | 10.21    | 0.26                | 10.2       |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 20                  | 10.21    | 0.26                | 10.2       |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 20                  | 10.21    | 2.03                | 8.75       |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 20                  | 10.21    | 0.27                | 10.16      |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 20                  | 10.21    | 0.27                | 10.16      |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 20                  | 10.21    | 0.2                 | 10.24      |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 20                  | 10.21    | 1.7                 | 10.16      |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2  | 20                  | 10.21    | 0.85                | 10.31      |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD3  | 20                  | 10.21    | 0.85                | 10.31      |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 20                  | 10.2     | 0.19                | 10.26      |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 20                  | 10.2     | 2.42                | 9.5        |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 20                  | 10.2     | 0.64                | 10.48      |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 20                  | 10.2     | 0.64                | 10.48      |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2  | 20                  | 10.2     | 0.57                | 10.3       |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3  | 20                  | 10.2     | 0.57                | 10.3       |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 20                  | 10.2     | 0.16                | 10.09      |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 20                  | 10.2     | 0.16                | 10.09      |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 20                  | 10.2     | 0.14                | 10.12      |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 20                  | 10.2     | 0.14                | 10.12      |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2  | 20                  | 10.2     | 1.42                | 10.2       |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 20                  | 10.2     | 1.42                | 10.2       |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 20                  | 10.19    | 0.05                | 10.2       |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 20                  | 10.19    | 0.11                | 10.16      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 20                  | 10.19    | 0.11                | 10.16      |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 20                  | 10.19    | 0.13                | 10.18      |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 20                  | 10.19    | 0.16                | 10.18      |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 20                  | 10.19    | 0.14                | 10.24      |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 20                  | 10.19    | 0.05                | 10.18      |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 20                  | 10.19    | 0.05                | 10.18      |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG   | 20                  | 10.18    | 0.92                | 10.27      |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 20                  | 10.18    | 2.3                 | 10.22      |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 20                  | 10.18    | 2.3                 | 10.22      |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 20                  | 10.18    | 0.07                | 10.19      |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 20                  | 10.17    | 2.72                | 10.61      |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H    | 20                  | 10.16    | 0.51                | 10.07      |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 20                  | 10.16    | 0.24                | 10.05      |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 20                  | 10.15    | 0.19                | 10.18      |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 20                  | 10.15    | 0.63                | 10.14      |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 20                  | 10.15    | 0.63                | 10.14      |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA   | 20                  | 10.15    | 0.31                | 10.16      |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA   | 20                  | 10.15    | 0.31                | 10.16      |
| (1,4510) | 1:A:25:TYR:H   | 1:A:29:GLY:HA2  | 20                  | 10.14    | 0.03                | 10.14      |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 20                  | 10.14    | 0.08                | 10.16      |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H    | 20                  | 10.14    | 0.68                | 10.12      |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H    | 20                  | 10.14    | 0.68                | 10.12      |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 20                  | 10.13    | 0.39                | 10.18      |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 20                  | 10.13    | 0.11                | 10.12      |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 20                  | 10.13    | 0.19                | 10.09      |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 20                  | 10.13    | 0.07                | 10.12      |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 20                  | 10.13    | 0.07                | 10.12      |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 20                  | 10.13    | 0.32                | 10.08      |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 20                  | 10.13    | 0.29                | 10.06      |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 20                  | 10.13    | 0.33                | 10.2       |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 20                  | 10.12    | 0.15                | 10.12      |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 20                  | 10.12    | 0.15                | 10.12      |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 20                  | 10.12    | 0.15                | 10.12      |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 20                  | 10.12    | 0.42                | 10.0       |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 20                  | 10.12    | 0.42                | 10.0       |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 20                  | 10.12    | 0.42                | 10.0       |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 20                  | 10.12    | 0.42                | 10.0       |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 20                  | 10.12    | 0.1                 | 10.07      |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 20                  | 10.12    | 0.1                 | 10.07      |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 20                  | 10.12    | 0.34                | 9.96       |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 20                  | 10.12    | 0.34                | 9.96       |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 20                  | 10.12    | 0.16                | 10.08      |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 20                  | 10.11    | 0.29                | 10.1       |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 20                  | 10.11    | 0.29                | 10.1       |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 20                  | 10.1     | 0.1                 | 10.14      |
| (1,2402) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HA   | 20                  | 10.09    | 0.23                | 10.12      |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 20                  | 10.09    | 0.1                 | 10.14      |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 20                  | 10.09    | 0.07                | 10.11      |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 20                  | 10.08    | 0.98                | 10.43      |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 20                  | 10.08    | 0.98                | 10.43      |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 20                  | 10.08    | 0.98                | 10.43      |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H    | 20                  | 10.07    | 0.09                | 10.08      |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 20                  | 10.07    | 0.28                | 10.06      |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 20                  | 10.07    | 0.28                | 10.06      |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H    | 20                  | 10.07    | 1.19                | 9.38       |
| (1,2742) | 1:A:11:TRP:HD1  | 1:A:22:GLN:H    | 20                  | 10.06    | 0.17                | 10.1       |
| (1,1322) | 1:A:4:ASN:HD22  | 1:A:8:GLY:HA2   | 20                  | 10.06    | 0.44                | 10.31      |
| (1,1322) | 1:A:4:ASN:HD22  | 1:A:8:GLY:HA3   | 20                  | 10.06    | 0.44                | 10.31      |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB1  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB2  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB3  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB1  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB2  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB3  | 20                  | 10.06    | 1.11                | 10.78      |
| (1,1874) | 1:A:6:GLN:HE22  | 1:A:13:GLY:HA3  | 20                  | 10.06    | 0.13                | 10.08      |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 20                  | 10.05    | 0.32                | 9.97       |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 20                  | 10.05    | 0.32                | 9.97       |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 20                  | 10.05    | 0.32                | 9.97       |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 20                  | 10.05    | 0.16                | 10.06      |
| (1,1399) | 1:A:5:GLY:H     | 1:A:9:PRO:HA    | 20                  | 10.05    | 0.09                | 10.0       |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG2  | 20                  | 10.05    | 1.46                | 9.91       |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3  | 20                  | 10.05    | 1.46                | 9.91       |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD1  | 20                  | 10.05    | 0.32                | 9.91       |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD2  | 20                  | 10.05    | 0.32                | 9.91       |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1  | 20                  | 10.04    | 0.26                | 10.11      |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2  | 20                  | 10.04    | 0.26                | 10.11      |
| (1,2050) | 1:A:8:GLY:H     | 1:A:22:GLN:HG3  | 20                  | 10.04    | 0.59                | 9.88       |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 20                  | 10.03    | 0.37                | 9.88       |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 20                  | 10.03    | 0.37                | 9.88       |
| (1,1779) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HA   | 20                  | 10.03    | 0.16                | 9.97       |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 20                  | 10.02    | 0.75                | 9.6        |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 20                  | 10.02    | 0.75                | 9.6        |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 20                  | 10.02    | 0.46                | 9.98       |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H    | 20                  | 10.02    | 0.07                | 10.02      |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 20                  | 10.02    | 0.2                 | 9.98       |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 20                  | 10.01    | 0.16                | 9.99       |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 20                  | 10.01    | 0.16                | 9.99       |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 20                  | 10.01    | 0.79                | 10.41      |
| (1,4374) | 1:A:23:TYR:HB2 | 1:A:29:GLY:H    | 20                  | 10.0     | 0.09                | 9.98       |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 20                  | 10.0     | 0.09                | 9.99       |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H    | 20                  | 10.0     | 0.17                | 10.03      |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 20                  | 10.0     | 0.24                | 9.96       |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2  | 20                  | 10.0     | 0.7                 | 9.91       |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 20                  | 9.99     | 0.18                | 9.99       |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 20                  | 9.99     | 0.12                | 10.03      |
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 20                  | 9.99     | 0.08                | 10.0       |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 20                  | 9.99     | 0.15                | 9.94       |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 20                  | 9.99     | 0.1                 | 10.0       |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 20                  | 9.97     | 0.69                | 9.84       |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 20                  | 9.97     | 0.25                | 9.96       |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 20                  | 9.97     | 0.25                | 9.96       |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3  | 20                  | 9.97     | 0.77                | 10.38      |
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H    | 20                  | 9.97     | 0.39                | 9.86       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 20                  | 9.96     | 0.17                | 9.88       |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 20                  | 9.95     | 0.35                | 9.74       |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 20                  | 9.95     | 0.35                | 9.74       |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 20                  | 9.95     | 0.24                | 9.99       |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 20                  | 9.95     | 0.41                | 10.12      |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 20                  | 9.95     | 0.41                | 10.12      |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 20                  | 9.95     | 0.48                | 9.71       |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H    | 20                  | 9.94     | 0.17                | 9.98       |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H    | 20                  | 9.94     | 0.17                | 9.98       |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H    | 20                  | 9.94     | 0.14                | 9.97       |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 20                  | 9.94     | 0.18                | 10.03      |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 20                  | 9.92     | 0.09                | 9.91       |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 20                  | 9.92     | 0.16                | 9.93       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3  | 20                  | 9.92     | 0.16                | 9.93       |
| (1,2012) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HZ1  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,2012) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HZ2  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,2012) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HZ3  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ1  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ2  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ3  | 20                  | 9.92     | 0.8                 | 10.24      |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2   | 20                  | 9.92     | 0.11                | 9.91       |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3   | 20                  | 9.92     | 0.11                | 9.91       |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H    | 20                  | 9.92     | 0.27                | 9.88       |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 20                  | 9.9      | 0.62                | 9.95       |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 20                  | 9.9      | 0.62                | 9.95       |
| (1,2101) | 1:A:8:GLY:HA2   | 1:A:32:TYR:HE1  | 20                  | 9.9      | 0.25                | 9.91       |
| (1,2101) | 1:A:8:GLY:HA2   | 1:A:32:TYR:HE2  | 20                  | 9.9      | 0.25                | 9.91       |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 20                  | 9.89     | 0.62                | 9.86       |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 20                  | 9.89     | 0.76                | 9.49       |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 20                  | 9.89     | 0.5                 | 10.03      |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 20                  | 9.89     | 0.5                 | 10.03      |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 20                  | 9.89     | 0.1                 | 9.88       |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1  | 20                  | 9.88     | 1.11                | 10.2       |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2  | 20                  | 9.88     | 1.11                | 10.2       |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3  | 20                  | 9.88     | 1.11                | 10.2       |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2  | 20                  | 9.88     | 0.25                | 9.91       |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3  | 20                  | 9.88     | 0.25                | 9.91       |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2  | 20                  | 9.88     | 1.57                | 9.81       |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3  | 20                  | 9.88     | 1.57                | 9.81       |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2  | 20                  | 9.87     | 0.86                | 9.46       |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3  | 20                  | 9.87     | 0.86                | 9.46       |
| (1,2173) | 1:A:9:PRO:HA    | 1:A:26:CYS:HA   | 20                  | 9.86     | 0.16                | 9.86       |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE   | 20                  | 9.86     | 1.96                | 10.03      |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG   | 20                  | 9.86     | 0.24                | 9.81       |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2   | 20                  | 9.85     | 0.08                | 9.8        |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3   | 20                  | 9.85     | 0.08                | 9.8        |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 20                  | 9.85     | 0.19                | 9.84       |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE1  | 20                  | 9.84     | 0.29                | 9.8        |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE2  | 20                  | 9.84     | 0.29                | 9.8        |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H    | 20                  | 9.84     | 0.12                | 9.8        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 20                  | 9.84     | 0.79                | 9.82       |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 20                  | 9.84     | 0.79                | 9.82       |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 20                  | 9.84     | 0.79                | 9.82       |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 20                  | 9.84     | 0.49                | 9.99       |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 20                  | 9.84     | 0.49                | 9.99       |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG2 | 20                  | 9.84     | 1.28                | 9.45       |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG3 | 20                  | 9.84     | 1.28                | 9.45       |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA  | 20                  | 9.83     | 0.18                | 9.84       |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 20                  | 9.83     | 1.07                | 10.19      |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG2  | 20                  | 9.83     | 0.05                | 9.8        |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG3  | 20                  | 9.83     | 0.05                | 9.8        |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 20                  | 9.82     | 1.14                | 10.54      |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 20                  | 9.82     | 0.19                | 9.79       |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG  | 20                  | 9.82     | 0.21                | 9.73       |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 20                  | 9.82     | 0.68                | 9.74       |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 20                  | 9.82     | 0.68                | 9.74       |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 20                  | 9.81     | 2.07                | 10.31      |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3 | 20                  | 9.81     | 2.07                | 10.31      |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 20                  | 9.81     | 1.31                | 10.65      |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA  | 20                  | 9.81     | 0.08                | 9.81       |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 20                  | 9.81     | 0.51                | 9.93       |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 20                  | 9.81     | 0.51                | 9.93       |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H   | 20                  | 9.8      | 0.08                | 9.78       |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2 | 20                  | 9.8      | 0.17                | 9.81       |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3 | 20                  | 9.8      | 0.17                | 9.81       |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2 | 20                  | 9.8      | 0.14                | 9.86       |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3 | 20                  | 9.8      | 0.14                | 9.86       |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2 | 20                  | 9.8      | 0.07                | 9.82       |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3 | 20                  | 9.8      | 0.07                | 9.82       |
| (1,1415) | 1:A:5:GLY:H     | 1:A:15:ARG:HE  | 20                  | 9.8      | 1.79                | 9.72       |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 20                  | 9.79     | 0.43                | 9.66       |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 20                  | 9.79     | 0.43                | 9.66       |
| (1,2009) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HA  | 20                  | 9.79     | 0.19                | 9.78       |
| (1,2009) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HA  | 20                  | 9.79     | 0.19                | 9.78       |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG  | 20                  | 9.79     | 0.3                 | 9.7        |
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA  | 20                  | 9.78     | 0.13                | 9.77       |
| (1,2553) | 1:A:10:GLY:HA3  | 1:A:26:CYS:H   | 20                  | 9.78     | 0.13                | 9.79       |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 20                  | 9.78     | 0.62                | 9.79       |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 20                  | 9.78     | 0.62                | 9.79       |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 20                  | 9.78     | 0.27                | 9.66       |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 20                  | 9.77     | 0.64                | 9.5        |
| (1,1710) | 1:A:6:GLN:HG2   | 1:A:19:CYS:H   | 20                  | 9.77     | 0.22                | 9.7        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1 | 20                  | 9.76     | 0.31                | 9.69       |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2 | 20                  | 9.76     | 0.31                | 9.69       |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 20                  | 9.76     | 1.03                | 10.07      |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE1 | 20                  | 9.76     | 0.37                | 9.68       |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2 | 20                  | 9.76     | 0.37                | 9.68       |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2 | 20                  | 9.76     | 1.41                | 9.64       |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3 | 20                  | 9.76     | 1.41                | 9.64       |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2 | 20                  | 9.76     | 1.41                | 9.64       |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3 | 20                  | 9.76     | 1.41                | 9.64       |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 20                  | 9.75     | 0.52                | 9.75       |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 20                  | 9.75     | 0.52                | 9.75       |
| (1,1641) | 1:A:6:GLN:HB3   | 1:A:19:CYS:HB3 | 20                  | 9.75     | 0.11                | 9.72       |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG  | 20                  | 9.75     | 0.33                | 9.68       |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 20                  | 9.75     | 2.79                | 9.23       |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA  | 20                  | 9.73     | 0.27                | 9.8        |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 20                  | 9.73     | 0.63                | 10.07      |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H   | 20                  | 9.73     | 0.76                | 9.96       |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H   | 20                  | 9.73     | 0.76                | 9.96       |
| (1,2033) | 1:A:8:GLY:H     | 1:A:16:GLY:H   | 20                  | 9.73     | 0.25                | 9.76       |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 20                  | 9.72     | 0.29                | 9.72       |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H   | 20                  | 9.72     | 0.3                 | 9.69       |
| (1,1753) | 1:A:6:GLN:HG3   | 1:A:18:LEU:HA  | 20                  | 9.71     | 0.32                | 9.56       |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 20                  | 9.7      | 0.7                 | 9.3        |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 20                  | 9.7      | 0.12                | 9.64       |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 20                  | 9.7      | 0.36                | 9.75       |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 20                  | 9.7      | 0.36                | 9.75       |
| (1,1288) | 1:A:4:ASN:HD21  | 1:A:27:GLY:H   | 20                  | 9.7      | 0.28                | 9.64       |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 20                  | 9.7      | 0.67                | 9.52       |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 20                  | 9.7      | 0.67                | 9.52       |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 20                  | 9.7      | 0.63                | 9.51       |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1 | 20                  | 9.7      | 0.23                | 9.68       |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2 | 20                  | 9.7      | 0.23                | 9.68       |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 20                  | 9.7      | 1.73                | 8.55       |
| (1,1772) | 1:A:6:GLN:HG3   | 1:A:28:SER:H   | 20                  | 9.69     | 0.17                | 9.59       |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H   | 20                  | 9.68     | 0.21                | 9.7        |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 20                  | 9.68     | 0.61                | 10.0       |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2 | 20                  | 9.68     | 0.21                | 9.61       |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2 | 20                  | 9.68     | 0.29                | 9.68       |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3 | 20                  | 9.68     | 0.29                | 9.68       |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1 | 20                  | 9.68     | 0.78                | 9.41       |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2 | 20                  | 9.68     | 0.78                | 9.41       |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 20                  | 9.68     | 0.07                | 9.66       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1836) | 1:A:6:GLN:HE21  | 1:A:27:GLY:H    | 20                  | 9.68     | 0.13                | 9.64       |
| (1,1898) | 1:A:6:GLN:HE22  | 1:A:27:GLY:H    | 20                  | 9.67     | 0.15                | 9.66       |
| (1,2222) | 1:A:9:PRO:HB2   | 1:A:25:TYR:H    | 20                  | 9.67     | 0.24                | 9.7        |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 20                  | 9.67     | 0.46                | 9.87       |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 20                  | 9.67     | 0.46                | 9.87       |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H    | 20                  | 9.67     | 0.2                 | 9.68       |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H    | 20                  | 9.67     | 1.41                | 8.74       |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H    | 20                  | 9.67     | 1.01                | 9.43       |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H    | 20                  | 9.67     | 1.01                | 9.43       |
| (1,1890) | 1:A:6:GLN:HE22  | 1:A:21:SER:HB3  | 20                  | 9.67     | 0.21                | 9.64       |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H    | 20                  | 9.66     | 0.11                | 9.66       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD11 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD12 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD13 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD21 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD22 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD23 | 20                  | 9.66     | 0.17                | 9.59       |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2  | 20                  | 9.65     | 0.14                | 9.69       |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3  | 20                  | 9.65     | 0.14                | 9.69       |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 20                  | 9.64     | 1.27                | 10.3       |
| (1,1865) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HA    | 20                  | 9.64     | 0.24                | 9.57       |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 20                  | 9.64     | 0.09                | 9.61       |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 20                  | 9.63     | 0.69                | 9.62       |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 20                  | 9.63     | 0.09                | 9.64       |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 20                  | 9.63     | 0.09                | 9.64       |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3  | 20                  | 9.62     | 0.69                | 9.24       |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 20                  | 9.62     | 0.93                | 9.48       |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 20                  | 9.62     | 0.93                | 9.48       |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H    | 20                  | 9.61     | 0.54                | 9.4        |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H    | 20                  | 9.61     | 0.54                | 9.4        |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB2  | 20                  | 9.61     | 0.54                | 9.36       |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB3  | 20                  | 9.61     | 0.54                | 9.36       |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA   | 20                  | 9.61     | 0.26                | 9.44       |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2  | 20                  | 9.61     | 0.23                | 9.64       |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3  | 20                  | 9.61     | 0.23                | 9.64       |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 20                  | 9.6      | 0.92                | 9.62       |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3  | 20                  | 9.6      | 0.1                 | 9.61       |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2  | 20                  | 9.59     | 0.07                | 9.59       |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3  | 20                  | 9.59     | 0.07                | 9.59       |
| (1,2202) | 1:A:9:PRO:HB2   | 1:A:14:CYS:H    | 20                  | 9.59     | 0.11                | 9.57       |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H    | 20                  | 9.58     | 0.12                | 9.57       |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 20                  | 9.58     | 0.04                | 9.59       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 20                  | 9.57     | 0.17                | 9.56       |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 20                  | 9.57     | 0.17                | 9.64       |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 20                  | 9.57     | 0.17                | 9.64       |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H   | 20                  | 9.57     | 0.66                | 9.7        |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1 | 20                  | 9.57     | 0.93                | 9.57       |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2 | 20                  | 9.57     | 0.93                | 9.57       |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 20                  | 9.57     | 0.08                | 9.55       |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 20                  | 9.57     | 0.08                | 9.55       |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 20                  | 9.56     | 0.11                | 9.53       |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 20                  | 9.56     | 0.11                | 9.53       |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 20                  | 9.56     | 0.4                 | 9.64       |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 20                  | 9.56     | 0.4                 | 9.64       |
| (1,1422) | 1:A:5:GLY:H     | 1:A:19:CYS:HB2 | 20                  | 9.55     | 0.19                | 9.54       |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 20                  | 9.55     | 0.21                | 9.48       |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H   | 20                  | 9.55     | 0.21                | 9.44       |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 20                  | 9.55     | 0.08                | 9.54       |
| (1,1599) | 1:A:6:GLN:HB2   | 1:A:22:GLN:H   | 20                  | 9.54     | 0.06                | 9.53       |
| (1,2390) | 1:A:9:PRO:HG3   | 1:A:23:TYR:H   | 20                  | 9.54     | 0.33                | 9.66       |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA  | 20                  | 9.54     | 0.07                | 9.56       |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 20                  | 9.54     | 0.78                | 9.72       |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3 | 20                  | 9.53     | 1.05                | 9.73       |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H   | 20                  | 9.52     | 0.11                | 9.56       |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 20                  | 9.52     | 0.34                | 9.57       |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 20                  | 9.52     | 0.34                | 9.57       |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA  | 20                  | 9.52     | 0.07                | 9.5        |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 20                  | 9.52     | 0.1                 | 9.54       |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 20                  | 9.52     | 0.04                | 9.52       |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 20                  | 9.52     | 0.04                | 9.52       |
| (1,2328) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HD1 | 20                  | 9.51     | 0.27                | 9.57       |
| (1,2328) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HD2 | 20                  | 9.51     | 0.27                | 9.57       |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 20                  | 9.51     | 0.41                | 9.59       |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 20                  | 9.51     | 0.41                | 9.59       |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 20                  | 9.51     | 0.41                | 9.59       |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA  | 20                  | 9.51     | 0.07                | 9.54       |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2 | 20                  | 9.51     | 0.2                 | 9.46       |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB2 | 20                  | 9.51     | 0.22                | 9.51       |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB3 | 20                  | 9.51     | 0.22                | 9.51       |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H   | 20                  | 9.51     | 0.19                | 9.54       |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 20                  | 9.5      | 0.08                | 9.48       |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 20                  | 9.5      | 0.36                | 9.37       |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 20                  | 9.5      | 0.36                | 9.37       |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 20                  | 9.5      | 0.19                | 9.46       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 20                  | 9.5      | 0.16                | 9.45       |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2 | 20                  | 9.5      | 0.46                | 9.72       |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3 | 20                  | 9.5      | 0.46                | 9.72       |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 20                  | 9.49     | 0.14                | 9.45       |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 20                  | 9.49     | 0.04                | 9.49       |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2 | 20                  | 9.49     | 0.81                | 9.57       |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3 | 20                  | 9.49     | 0.81                | 9.57       |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1 | 20                  | 9.48     | 0.23                | 9.43       |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2 | 20                  | 9.48     | 0.23                | 9.43       |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 20                  | 9.48     | 0.89                | 9.14       |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 20                  | 9.48     | 1.74                | 9.25       |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 20                  | 9.47     | 0.25                | 9.54       |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 20                  | 9.47     | 0.15                | 9.41       |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 20                  | 9.47     | 0.15                | 9.41       |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 20                  | 9.47     | 0.25                | 9.44       |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 20                  | 9.47     | 1.28                | 9.4        |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 20                  | 9.46     | 0.06                | 9.48       |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 20                  | 9.46     | 0.06                | 9.48       |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 20                  | 9.45     | 1.05                | 9.58       |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 20                  | 9.45     | 1.05                | 9.58       |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 20                  | 9.45     | 1.05                | 9.58       |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 20                  | 9.45     | 1.05                | 9.58       |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 20                  | 9.45     | 0.14                | 9.47       |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 20                  | 9.44     | 0.11                | 9.48       |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 20                  | 9.44     | 0.26                | 9.44       |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 20                  | 9.44     | 0.26                | 9.44       |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 20                  | 9.44     | 0.53                | 9.75       |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 20                  | 9.44     | 0.53                | 9.75       |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 20                  | 9.44     | 0.52                | 9.21       |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1 | 20                  | 9.44     | 2.33                | 9.5        |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1 | 20                  | 9.44     | 2.33                | 9.5        |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 20                  | 9.44     | 0.88                | 9.62       |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H   | 20                  | 9.44     | 0.54                | 9.7        |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 20                  | 9.44     | 0.11                | 9.41       |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 20                  | 9.44     | 0.11                | 9.41       |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H   | 20                  | 9.43     | 0.35                | 9.44       |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 20                  | 9.43     | 0.94                | 9.11       |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 20                  | 9.43     | 0.94                | 9.11       |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 20                  | 9.43     | 0.19                | 9.48       |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 20                  | 9.43     | 0.19                | 9.48       |
| (1,3647) | 1:A:18:LEU:H   | 1:A:24:GLY:HA2 | 20                  | 9.43     | 0.08                | 9.45       |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2 | 20                  | 9.42     | 0.42                | 9.6        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2477) | 1:A:10:GLY:H    | 1:A:26:CYS:HA  | 20                  | 9.42     | 0.12                | 9.45       |
| (1,2670) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HD1 | 20                  | 9.42     | 0.32                | 9.25       |
| (1,2670) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HD2 | 20                  | 9.42     | 0.32                | 9.25       |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1 | 20                  | 9.42     | 0.11                | 9.43       |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2 | 20                  | 9.42     | 0.11                | 9.43       |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 20                  | 9.41     | 1.63                | 9.38       |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 20                  | 9.41     | 1.63                | 9.38       |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 20                  | 9.41     | 1.17                | 9.95       |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 20                  | 9.4      | 1.13                | 9.27       |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 20                  | 9.4      | 1.13                | 9.27       |
| (1,2466) | 1:A:10:GLY:H    | 1:A:21:SER:H   | 20                  | 9.4      | 0.15                | 9.46       |
| (1,2453) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HE1 | 20                  | 9.4      | 0.23                | 9.43       |
| (1,2453) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HE2 | 20                  | 9.4      | 0.23                | 9.43       |
| (1,2453) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HE1 | 20                  | 9.4      | 0.23                | 9.43       |
| (1,2453) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HE2 | 20                  | 9.4      | 0.23                | 9.43       |
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H   | 20                  | 9.4      | 0.91                | 8.86       |
| (1,2619) | 1:A:11:TRP:HA   | 1:A:21:SER:H   | 20                  | 9.4      | 0.08                | 9.39       |
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG2 | 20                  | 9.39     | 1.17                | 9.39       |
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG3 | 20                  | 9.39     | 1.17                | 9.39       |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 20                  | 9.39     | 1.05                | 10.01      |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 20                  | 9.39     | 1.05                | 10.01      |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 20                  | 9.39     | 1.05                | 10.01      |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 20                  | 9.39     | 0.21                | 9.38       |
| (1,2146) | 1:A:9:PRO:HA    | 1:A:14:CYS:HB2 | 20                  | 9.38     | 0.14                | 9.44       |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 20                  | 9.38     | 0.4                 | 9.26       |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 20                  | 9.38     | 0.4                 | 9.26       |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 20                  | 9.38     | 0.4                 | 9.26       |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3 | 20                  | 9.38     | 0.07                | 9.4        |
| (1,1600) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HA  | 20                  | 9.38     | 0.08                | 9.38       |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 20                  | 9.38     | 1.18                | 9.34       |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 20                  | 9.38     | 1.18                | 9.34       |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 20                  | 9.38     | 1.18                | 9.34       |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 20                  | 9.38     | 0.07                | 9.37       |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 20                  | 9.37     | 0.13                | 9.41       |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 20                  | 9.37     | 0.13                | 9.41       |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 20                  | 9.37     | 0.13                | 9.41       |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 20                  | 9.37     | 0.26                | 9.34       |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1 | 20                  | 9.37     | 2.82                | 9.75       |
| (1,2172) | 1:A:9:PRO:HA    | 1:A:26:CYS:H   | 20                  | 9.37     | 0.15                | 9.39       |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 20                  | 9.37     | 0.2                 | 9.32       |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 20                  | 9.37     | 0.2                 | 9.32       |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 20                  | 9.36     | 0.09                | 9.39       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 20                  | 9.36     | 0.74                | 9.57       |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 20                  | 9.36     | 0.74                | 9.57       |
| (1,2326) | 1:A:9:PRO:HG2   | 1:A:23:TYR:H    | 20                  | 9.36     | 0.33                | 9.48       |
| (1,1455) | 1:A:5:GLY:HA2   | 1:A:9:PRO:HG2   | 20                  | 9.35     | 0.06                | 9.32       |
| (1,1455) | 1:A:5:GLY:HA2   | 1:A:9:PRO:HG3   | 20                  | 9.35     | 0.06                | 9.32       |
| (1,2158) | 1:A:9:PRO:HA    | 1:A:21:SER:H    | 20                  | 9.35     | 0.19                | 9.42       |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2  | 20                  | 9.34     | 1.12                | 9.74       |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3  | 20                  | 9.34     | 1.12                | 9.74       |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA   | 20                  | 9.34     | 0.12                | 9.34       |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H    | 20                  | 9.34     | 0.22                | 9.35       |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2  | 20                  | 9.34     | 1.42                | 9.36       |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H    | 20                  | 9.33     | 0.12                | 9.32       |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE21 | 20                  | 9.33     | 1.19                | 9.68       |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE22 | 20                  | 9.33     | 1.19                | 9.68       |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 20                  | 9.32     | 1.4                 | 9.15       |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 20                  | 9.32     | 1.4                 | 9.15       |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H    | 20                  | 9.32     | 0.22                | 9.36       |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H    | 20                  | 9.32     | 0.22                | 9.36       |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB2  | 20                  | 9.32     | 0.14                | 9.36       |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB3  | 20                  | 9.32     | 0.14                | 9.36       |
| (1,1364) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HA   | 20                  | 9.32     | 0.25                | 9.3        |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 20                  | 9.32     | 1.73                | 9.12       |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 20                  | 9.31     | 0.16                | 9.32       |
| (1,2685) | 1:A:11:TRP:HB3  | 1:A:19:CYS:H    | 20                  | 9.31     | 0.25                | 9.21       |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG   | 20                  | 9.31     | 0.11                | 9.33       |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2  | 20                  | 9.3      | 0.31                | 9.26       |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2  | 20                  | 9.3      | 0.31                | 9.26       |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3  | 20                  | 9.3      | 0.31                | 9.26       |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3  | 20                  | 9.3      | 0.31                | 9.26       |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA   | 20                  | 9.3      | 0.08                | 9.3        |
| (1,1524) | 1:A:6:GLN:H     | 1:A:22:GLN:HA   | 20                  | 9.3      | 0.17                | 9.3        |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2  | 20                  | 9.29     | 0.05                | 9.3        |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 20                  | 9.29     | 1.24                | 9.56       |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 20                  | 9.29     | 0.79                | 9.43       |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 20                  | 9.29     | 0.79                | 9.43       |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 20                  | 9.29     | 0.79                | 9.43       |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1  | 20                  | 9.29     | 1.08                | 10.09      |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2  | 20                  | 9.29     | 1.08                | 10.09      |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3  | 20                  | 9.29     | 1.08                | 10.09      |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2  | 20                  | 9.28     | 2.68                | 8.2        |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 20                  | 9.28     | 0.27                | 9.28       |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H    | 20                  | 9.28     | 0.11                | 9.27       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H    | 20                  | 9.28     | 0.09                | 9.26       |
| (1,1528) | 1:A:6:GLN:H     | 1:A:23:TYR:HE1  | 20                  | 9.28     | 0.19                | 9.26       |
| (1,1528) | 1:A:6:GLN:H     | 1:A:23:TYR:HE2  | 20                  | 9.28     | 0.19                | 9.26       |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 20                  | 9.28     | 1.68                | 8.86       |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 20                  | 9.28     | 1.68                | 8.86       |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 20                  | 9.27     | 0.12                | 9.29       |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 20                  | 9.27     | 1.56                | 9.28       |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 20                  | 9.27     | 1.56                | 9.28       |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 20                  | 9.27     | 1.03                | 9.93       |
| (1,2038) | 1:A:8:GLY:H     | 1:A:18:LEU:HG   | 20                  | 9.26     | 0.14                | 9.29       |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 20                  | 9.26     | 0.16                | 9.25       |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 20                  | 9.26     | 0.16                | 9.25       |
| (1,2032) | 1:A:8:GLY:H     | 1:A:15:ARG:HE   | 20                  | 9.26     | 2.09                | 9.7        |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 20                  | 9.25     | 0.13                | 9.21       |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 20                  | 9.25     | 0.13                | 9.21       |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 20                  | 9.25     | 0.13                | 9.21       |
| (1,2075) | 1:A:8:GLY:H     | 1:A:32:TYR:HE1  | 20                  | 9.25     | 0.27                | 9.2        |
| (1,2075) | 1:A:8:GLY:H     | 1:A:32:TYR:HE2  | 20                  | 9.25     | 0.27                | 9.2        |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2  | 20                  | 9.25     | 0.12                | 9.27       |
| (1,2305) | 1:A:9:PRO:HG2   | 1:A:14:CYS:H    | 20                  | 9.25     | 0.13                | 9.23       |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB2  | 20                  | 9.24     | 0.73                | 8.88       |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB3  | 20                  | 9.24     | 0.73                | 8.88       |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 20                  | 9.24     | 0.2                 | 9.35       |
| (1,2623) | 1:A:11:TRP:HA   | 1:A:25:TYR:HB3  | 20                  | 9.24     | 0.12                | 9.25       |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 20                  | 9.24     | 1.69                | 9.17       |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H    | 20                  | 9.23     | 0.32                | 9.18       |
| (1,2581) | 1:A:11:TRP:H    | 1:A:15:ARG:HB2  | 20                  | 9.23     | 0.8                 | 9.14       |
| (1,2581) | 1:A:11:TRP:H    | 1:A:15:ARG:HB3  | 20                  | 9.23     | 0.8                 | 9.14       |
| (1,2168) | 1:A:9:PRO:HA    | 1:A:25:TYR:H    | 20                  | 9.23     | 0.22                | 9.28       |
| (1,1873) | 1:A:6:GLN:HE22  | 1:A:13:GLY:H    | 20                  | 9.23     | 0.18                | 9.23       |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H    | 20                  | 9.22     | 0.11                | 9.25       |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H    | 20                  | 9.22     | 0.11                | 9.25       |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE21 | 20                  | 9.22     | 0.71                | 9.43       |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE22 | 20                  | 9.22     | 0.71                | 9.43       |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H    | 20                  | 9.22     | 0.19                | 9.19       |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 20                  | 9.22     | 1.28                | 9.88       |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 20                  | 9.22     | 1.09                | 8.55       |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 20                  | 9.22     | 1.09                | 8.55       |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H    | 20                  | 9.21     | 0.1                 | 9.25       |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 20                  | 9.21     | 2.68                | 8.98       |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 20                  | 9.2      | 1.76                | 9.1        |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 20                  | 9.2      | 1.76                | 9.1        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 20                  | 9.2      | 1.7                 | 9.2        |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 20                  | 9.2      | 1.7                 | 9.2        |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 20                  | 9.2      | 1.14                | 9.22       |
| (1,1519) | 1:A:6:GLN:H     | 1:A:19:CYS:HB3 | 20                  | 9.2      | 0.17                | 9.19       |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 20                  | 9.2      | 1.08                | 9.08       |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 20                  | 9.2      | 1.08                | 9.08       |
| (1,2171) | 1:A:9:PRO:HA    | 1:A:25:TYR:HE1 | 20                  | 9.19     | 0.28                | 9.17       |
| (1,2171) | 1:A:9:PRO:HA    | 1:A:25:TYR:HE2 | 20                  | 9.19     | 0.28                | 9.17       |
| (1,2473) | 1:A:10:GLY:H    | 1:A:25:TYR:H   | 20                  | 9.19     | 0.18                | 9.24       |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 20                  | 9.19     | 0.09                | 9.23       |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 20                  | 9.19     | 1.15                | 9.54       |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 20                  | 9.19     | 1.15                | 9.54       |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 20                  | 9.19     | 1.15                | 9.54       |
| (1,2087) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HG3 | 20                  | 9.18     | 0.74                | 9.15       |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 20                  | 9.18     | 0.27                | 9.26       |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 20                  | 9.17     | 1.63                | 8.86       |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 20                  | 9.17     | 1.63                | 8.86       |
| (1,906)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:HA2 | 20                  | 9.17     | 0.33                | 9.34       |
| (1,906)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:HA2 | 20                  | 9.17     | 0.33                | 9.34       |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 20                  | 9.16     | 0.08                | 9.17       |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 20                  | 9.15     | 0.07                | 9.16       |
| (1,1803) | 1:A:6:GLN:HE21  | 1:A:13:GLY:H   | 20                  | 9.15     | 0.17                | 9.17       |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2 | 20                  | 9.15     | 0.14                | 9.16       |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3 | 20                  | 9.15     | 0.14                | 9.16       |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 20                  | 9.15     | 1.17                | 9.27       |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 20                  | 9.15     | 1.17                | 9.27       |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 20                  | 9.15     | 1.17                | 9.27       |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 20                  | 9.14     | 0.13                | 9.09       |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 20                  | 9.14     | 0.13                | 9.09       |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 20                  | 9.14     | 0.14                | 9.16       |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 20                  | 9.14     | 0.14                | 9.16       |
| (1,1867) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HG2  | 20                  | 9.14     | 0.16                | 9.06       |
| (1,1867) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HG3  | 20                  | 9.14     | 0.16                | 9.06       |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 20                  | 9.13     | 0.21                | 9.13       |
| (1,2223) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HD1 | 20                  | 9.13     | 0.26                | 9.12       |
| (1,2223) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HD2 | 20                  | 9.13     | 0.26                | 9.12       |
| (1,2320) | 1:A:9:PRO:HG2   | 1:A:21:SER:H   | 20                  | 9.13     | 0.25                | 9.2        |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 20                  | 9.13     | 0.14                | 9.19       |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H   | 20                  | 9.13     | 0.54                | 8.8        |
| (1,2368) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HH2 | 20                  | 9.13     | 0.05                | 9.12       |
| (1,2085) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HG2 | 20                  | 9.13     | 0.76                | 9.32       |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 20                  | 9.12     | 0.15                | 9.1        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1 | 20                  | 9.12     | 0.07                | 9.14       |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2 | 20                  | 9.12     | 0.07                | 9.14       |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 20                  | 9.12     | 1.52                | 8.95       |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 20                  | 9.12     | 1.52                | 8.95       |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 20                  | 9.11     | 0.1                 | 9.09       |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 20                  | 9.11     | 0.1                 | 9.09       |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2 | 20                  | 9.11     | 0.08                | 9.11       |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2 | 20                  | 9.11     | 0.08                | 9.11       |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE1 | 20                  | 9.11     | 0.27                | 9.12       |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE2 | 20                  | 9.11     | 0.27                | 9.12       |
| (1,1257) | 1:A:4:ASN:HD21  | 1:A:12:GLY:H   | 20                  | 9.11     | 0.59                | 9.44       |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1 | 20                  | 9.11     | 0.8                 | 8.73       |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2 | 20                  | 9.11     | 0.8                 | 8.73       |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 20                  | 9.11     | 0.13                | 9.13       |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA2 | 20                  | 9.11     | 0.44                | 9.1        |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA3 | 20                  | 9.11     | 0.44                | 9.1        |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 20                  | 9.1      | 0.32                | 9.05       |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 20                  | 9.1      | 0.56                | 9.27       |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 20                  | 9.1      | 0.03                | 9.09       |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 20                  | 9.1      | 0.03                | 9.09       |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 20                  | 9.1      | 0.03                | 9.09       |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 20                  | 9.1      | 0.03                | 9.09       |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2 | 20                  | 9.09     | 1.55                | 8.81       |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3 | 20                  | 9.09     | 1.55                | 8.81       |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 20                  | 9.09     | 0.04                | 9.09       |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 20                  | 9.09     | 0.32                | 9.08       |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 20                  | 9.09     | 0.32                | 9.08       |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 20                  | 9.08     | 0.08                | 9.05       |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2 | 20                  | 9.08     | 0.19                | 9.06       |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2 | 20                  | 9.08     | 0.19                | 9.06       |
| (1,1725) | 1:A:6:GLN:HG2   | 1:A:27:GLY:HA2 | 20                  | 9.08     | 0.17                | 8.98       |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA  | 20                  | 9.08     | 0.99                | 8.36       |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 20                  | 9.07     | 0.17                | 9.04       |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 20                  | 9.07     | 0.05                | 9.06       |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 20                  | 9.07     | 0.81                | 9.4        |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 20                  | 9.07     | 0.81                | 9.4        |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 20                  | 9.07     | 1.35                | 9.34       |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 20                  | 9.07     | 0.16                | 9.05       |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 20                  | 9.07     | 0.16                | 9.05       |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 20                  | 9.07     | 0.16                | 9.05       |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 20                  | 9.07     | 0.16                | 9.05       |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 20                  | 9.07     | 0.06                | 9.07       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 20                  | 9.07     | 0.06                | 9.07       |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG2 | 20                  | 9.07     | 0.05                | 9.1        |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG3 | 20                  | 9.07     | 0.05                | 9.1        |
| (1,1361) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HB2 | 20                  | 9.07     | 0.41                | 8.94       |
| (1,1610) | 1:A:6:GLN:HB2   | 1:A:32:TYR:HB2 | 20                  | 9.06     | 0.11                | 9.07       |
| (1,1610) | 1:A:6:GLN:HB2   | 1:A:32:TYR:HB3 | 20                  | 9.06     | 0.11                | 9.07       |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 20                  | 9.06     | 0.1                 | 9.06       |
| (1,1712) | 1:A:6:GLN:HG2   | 1:A:20:CYS:H   | 20                  | 9.05     | 0.12                | 9.04       |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 20                  | 9.05     | 0.32                | 8.96       |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 20                  | 9.05     | 0.07                | 9.03       |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 20                  | 9.05     | 0.07                | 9.03       |
| (1,1354) | 1:A:4:ASN:HD22  | 1:A:21:SER:HG  | 20                  | 9.04     | 0.29                | 8.98       |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 20                  | 9.04     | 2.97                | 7.64       |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 20                  | 9.04     | 2.97                | 7.64       |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 20                  | 9.04     | 0.39                | 8.86       |
| (1,1251) | 1:A:4:ASN:HD21  | 1:A:8:GLY:H    | 20                  | 9.04     | 0.55                | 9.41       |
| (1,2011) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HG2 | 20                  | 9.03     | 0.73                | 8.7        |
| (1,2011) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HG2 | 20                  | 9.03     | 0.73                | 8.7        |
| (1,2011) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HG3 | 20                  | 9.03     | 0.73                | 8.7        |
| (1,2011) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HG3 | 20                  | 9.03     | 0.73                | 8.7        |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 20                  | 9.02     | 0.18                | 9.02       |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 20                  | 9.02     | 2.84                | 9.3        |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 20                  | 9.02     | 0.9                 | 9.06       |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 20                  | 9.02     | 1.12                | 8.75       |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1 | 20                  | 9.02     | 2.35                | 8.83       |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 20                  | 9.02     | 0.32                | 9.02       |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 20                  | 9.02     | 0.32                | 9.02       |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 20                  | 9.01     | 0.21                | 9.0        |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 20                  | 9.01     | 0.12                | 9.04       |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 20                  | 9.01     | 0.12                | 9.04       |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1 | 20                  | 9.01     | 0.3                 | 8.99       |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2 | 20                  | 9.01     | 0.3                 | 8.99       |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 20                  | 9.0      | 0.47                | 8.96       |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 20                  | 9.0      | 0.47                | 8.96       |
| (1,1432) | 1:A:5:GLY:H     | 1:A:23:TYR:HA  | 20                  | 9.0      | 0.24                | 9.01       |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 20                  | 8.99     | 0.23                | 8.91       |
| (1,1815) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HB2 | 20                  | 8.99     | 0.21                | 8.94       |
| (1,1815) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HB3 | 20                  | 8.99     | 0.21                | 8.94       |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 20                  | 8.99     | 0.71                | 8.8        |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 20                  | 8.99     | 0.49                | 8.82       |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 20                  | 8.98     | 0.08                | 8.97       |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 20                  | 8.98     | 0.12                | 9.02       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 20                  | 8.98     | 0.12                | 9.02       |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD2 | 20                  | 8.98     | 1.18                | 9.18       |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD3 | 20                  | 8.98     | 1.18                | 9.18       |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 20                  | 8.98     | 0.37                | 9.0        |
| (1,4260) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HA  | 20                  | 8.97     | 1.32                | 9.27       |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H   | 20                  | 8.97     | 0.11                | 9.02       |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA  | 20                  | 8.96     | 0.14                | 8.98       |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 20                  | 8.96     | 0.11                | 8.89       |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 20                  | 8.96     | 0.82                | 8.73       |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 20                  | 8.96     | 0.82                | 8.73       |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 20                  | 8.96     | 0.32                | 8.89       |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 20                  | 8.96     | 1.12                | 8.82       |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 20                  | 8.95     | 0.19                | 8.96       |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 20                  | 8.95     | 0.19                | 8.96       |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 20                  | 8.95     | 0.17                | 8.93       |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H   | 20                  | 8.95     | 0.69                | 9.2        |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB2 | 20                  | 8.95     | 0.47                | 9.12       |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB3 | 20                  | 8.95     | 0.47                | 9.12       |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 20                  | 8.94     | 0.04                | 8.94       |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 20                  | 8.94     | 0.21                | 8.93       |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 20                  | 8.94     | 0.21                | 8.93       |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 20                  | 8.94     | 0.14                | 8.89       |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 20                  | 8.93     | 0.21                | 9.02       |
| (1,4002) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HG3 | 20                  | 8.93     | 0.96                | 8.56       |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 20                  | 8.93     | 0.15                | 8.91       |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 20                  | 8.92     | 0.09                | 8.9        |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 20                  | 8.92     | 0.09                | 8.9        |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 20                  | 8.92     | 0.31                | 9.0        |
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2 | 20                  | 8.92     | 0.45                | 8.93       |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 20                  | 8.91     | 0.29                | 8.91       |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 20                  | 8.91     | 0.07                | 8.93       |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 20                  | 8.91     | 0.21                | 8.91       |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 20                  | 8.91     | 0.21                | 8.91       |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 20                  | 8.9      | 1.41                | 8.82       |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 20                  | 8.9      | 1.41                | 8.82       |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 20                  | 8.9      | 0.18                | 8.91       |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 20                  | 8.9      | 0.18                | 8.91       |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2 | 20                  | 8.9      | 0.72                | 9.09       |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3 | 20                  | 8.9      | 0.72                | 9.09       |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 20                  | 8.9      | 0.51                | 8.86       |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 20                  | 8.9      | 0.51                | 8.86       |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 20                  | 8.89     | 0.39                | 8.91       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2  | 20                  | 8.89     | 0.39                | 8.91       |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1  | 20                  | 8.89     | 3.05                | 10.0       |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1  | 20                  | 8.89     | 3.05                | 10.0       |
| (1,2837) | 1:A:11:TRP:HE1  | 1:A:14:CYS:HB2  | 20                  | 8.89     | 0.15                | 8.84       |
| (1,2837) | 1:A:11:TRP:HE1  | 1:A:14:CYS:HB3  | 20                  | 8.89     | 0.15                | 8.84       |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA   | 20                  | 8.89     | 0.15                | 8.93       |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA   | 20                  | 8.89     | 0.15                | 8.93       |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA   | 20                  | 8.89     | 0.15                | 8.93       |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE21 | 20                  | 8.88     | 1.18                | 9.34       |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE22 | 20                  | 8.88     | 1.18                | 9.34       |
| (1,2170) | 1:A:9:PRO:HA    | 1:A:25:TYR:HD1  | 20                  | 8.88     | 0.27                | 8.84       |
| (1,2170) | 1:A:9:PRO:HA    | 1:A:25:TYR:HD2  | 20                  | 8.88     | 0.27                | 8.84       |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD1  | 20                  | 8.88     | 0.23                | 8.88       |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD2  | 20                  | 8.88     | 0.23                | 8.88       |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 20                  | 8.87     | 0.68                | 8.9        |
| (1,1755) | 1:A:6:GLN:HG3   | 1:A:19:CYS:HA   | 20                  | 8.87     | 0.2                 | 8.82       |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 20                  | 8.85     | 0.08                | 8.83       |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 20                  | 8.85     | 0.24                | 8.84       |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 20                  | 8.85     | 0.24                | 8.84       |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 20                  | 8.85     | 0.24                | 8.84       |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 20                  | 8.85     | 0.24                | 8.84       |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB2   | 20                  | 8.85     | 0.21                | 8.76       |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB3   | 20                  | 8.85     | 0.21                | 8.76       |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1  | 20                  | 8.85     | 5.3                 | 8.22       |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1  | 20                  | 8.84     | 0.12                | 8.85       |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H    | 20                  | 8.84     | 0.58                | 8.86       |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H    | 20                  | 8.84     | 0.58                | 8.86       |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 20                  | 8.83     | 1.67                | 9.32       |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 20                  | 8.83     | 1.67                | 9.32       |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 20                  | 8.83     | 0.45                | 8.94       |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2  | 20                  | 8.83     | 1.3                 | 8.62       |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3  | 20                  | 8.83     | 1.3                 | 8.62       |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 20                  | 8.83     | 0.16                | 8.86       |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H    | 20                  | 8.82     | 0.26                | 8.91       |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG   | 20                  | 8.82     | 0.25                | 8.78       |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 20                  | 8.82     | 0.31                | 8.78       |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 20                  | 8.82     | 0.31                | 8.78       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 20                  | 8.81     | 0.1                 | 8.8        |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 20                  | 8.81     | 0.1                 | 8.8        |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 20                  | 8.81     | 0.39                | 8.72       |
| (1,2156) | 1:A:9:PRO:HA    | 1:A:20:CYS:H   | 20                  | 8.81     | 0.16                | 8.9        |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 20                  | 8.81     | 0.09                | 8.8        |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 20                  | 8.81     | 0.3                 | 8.8        |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 20                  | 8.81     | 0.63                | 9.2        |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 20                  | 8.81     | 0.34                | 8.79       |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 20                  | 8.81     | 0.34                | 8.79       |
| (1,1478) | 1:A:5:GLY:HA3   | 1:A:16:GLY:H   | 20                  | 8.81     | 0.89                | 8.24       |
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG  | 20                  | 8.8      | 0.25                | 8.76       |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 20                  | 8.79     | 0.13                | 8.79       |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 20                  | 8.79     | 0.22                | 8.8        |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 20                  | 8.79     | 0.35                | 8.75       |
| (1,1837) | 1:A:6:GLN:HE21  | 1:A:27:GLY:HA2 | 20                  | 8.78     | 0.11                | 8.76       |
| (1,1837) | 1:A:6:GLN:HE21  | 1:A:27:GLY:HA3 | 20                  | 8.78     | 0.11                | 8.76       |
| (1,1889) | 1:A:6:GLN:HE22  | 1:A:21:SER:H   | 20                  | 8.78     | 0.17                | 8.75       |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB2 | 20                  | 8.78     | 0.27                | 8.9        |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB3 | 20                  | 8.78     | 0.27                | 8.9        |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 20                  | 8.78     | 0.31                | 8.81       |
| (1,1534) | 1:A:6:GLN:H     | 1:A:28:SER:H   | 20                  | 8.77     | 0.08                | 8.74       |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA2 | 20                  | 8.76     | 0.29                | 8.72       |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA3 | 20                  | 8.76     | 0.29                | 8.72       |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 20                  | 8.76     | 0.7                 | 8.59       |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2 | 20                  | 8.76     | 0.19                | 8.82       |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3 | 20                  | 8.76     | 0.19                | 8.82       |
| (1,3064) | 1:A:12:GLY:HA3  | 1:A:25:TYR:H   | 20                  | 8.76     | 0.09                | 8.75       |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 20                  | 8.75     | 0.05                | 8.75       |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 20                  | 8.75     | 1.15                | 9.32       |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 20                  | 8.75     | 1.15                | 9.32       |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 20                  | 8.75     | 1.15                | 9.32       |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H   | 20                  | 8.75     | 0.89                | 8.6        |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 20                  | 8.75     | 0.64                | 8.48       |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 20                  | 8.74     | 0.05                | 8.74       |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 20                  | 8.74     | 0.06                | 8.74       |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 20                  | 8.74     | 0.06                | 8.74       |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H   | 20                  | 8.74     | 0.19                | 8.67       |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 20                  | 8.74     | 0.69                | 8.74       |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 20                  | 8.74     | 0.69                | 8.74       |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 20                  | 8.74     | 0.69                | 8.74       |
| (1,2083) | 1:A:8:GLY:HA2   | 1:A:18:LEU:HB2 | 20                  | 8.74     | 0.21                | 8.76       |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 20                  | 8.73     | 0.85                | 8.28       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3  | 20                  | 8.73     | 0.85                | 8.28       |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD1  | 20                  | 8.73     | 0.23                | 8.74       |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD2  | 20                  | 8.73     | 0.23                | 8.74       |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD1  | 20                  | 8.73     | 0.23                | 8.74       |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD2  | 20                  | 8.73     | 0.23                | 8.74       |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 20                  | 8.73     | 4.96                | 7.64       |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H    | 20                  | 8.73     | 0.22                | 8.71       |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H    | 20                  | 8.73     | 0.22                | 8.71       |
| (1,840)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HD1  | 20                  | 8.72     | 0.08                | 8.71       |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB2  | 20                  | 8.72     | 0.3                 | 8.64       |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB3  | 20                  | 8.72     | 0.3                 | 8.64       |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2  | 20                  | 8.72     | 0.51                | 8.64       |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3  | 20                  | 8.72     | 0.51                | 8.64       |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2  | 20                  | 8.72     | 0.51                | 8.64       |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3  | 20                  | 8.72     | 0.51                | 8.64       |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2  | 20                  | 8.72     | 0.82                | 8.16       |
| (1,2476) | 1:A:10:GLY:H    | 1:A:25:TYR:HE1  | 20                  | 8.72     | 0.29                | 8.66       |
| (1,2476) | 1:A:10:GLY:H    | 1:A:25:TYR:HE2  | 20                  | 8.72     | 0.29                | 8.66       |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB2  | 20                  | 8.71     | 0.22                | 8.72       |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB3  | 20                  | 8.71     | 0.22                | 8.72       |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 20                  | 8.71     | 0.17                | 8.76       |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2  | 20                  | 8.71     | 0.17                | 8.76       |
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1  | 20                  | 8.71     | 0.12                | 8.75       |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 20                  | 8.71     | 0.16                | 8.66       |
| (1,1206) | 1:A:4:ASN:HB3   | 1:A:19:CYS:H    | 20                  | 8.71     | 0.34                | 8.7        |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2  | 20                  | 8.71     | 0.19                | 8.76       |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3  | 20                  | 8.71     | 0.19                | 8.76       |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 20                  | 8.7      | 0.96                | 9.1        |
| (1,754)  | 1:A:3:PRO:HA    | 1:A:14:CYS:HB2  | 20                  | 8.7      | 0.55                | 9.06       |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2  | 20                  | 8.7      | 0.23                | 8.71       |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2  | 20                  | 8.7      | 0.23                | 8.71       |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3  | 20                  | 8.7      | 0.23                | 8.71       |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3  | 20                  | 8.7      | 0.23                | 8.71       |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 20                  | 8.7      | 0.82                | 8.66       |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 20                  | 8.7      | 0.82                | 8.66       |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1  | 20                  | 8.7      | 2.92                | 9.39       |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1  | 20                  | 8.7      | 2.92                | 9.39       |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 20                  | 8.7      | 2.92                | 9.39       |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 20                  | 8.7      | 2.54                | 8.52       |
| (1,1227) | 1:A:4:ASN:HB3   | 1:A:28:SER:H    | 20                  | 8.7      | 0.22                | 8.72       |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 20                  | 8.7      | 0.46                | 8.92       |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H    | 20                  | 8.69     | 0.05                | 8.68       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 20                  | 8.69     | 0.14                | 8.73       |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 20                  | 8.69     | 0.48                | 8.63       |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 20                  | 8.69     | 0.48                | 8.63       |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 20                  | 8.69     | 0.48                | 8.63       |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 20                  | 8.69     | 0.48                | 8.63       |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 20                  | 8.69     | 0.43                | 8.86       |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 20                  | 8.68     | 0.25                | 8.76       |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 20                  | 8.68     | 0.21                | 8.75       |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 20                  | 8.68     | 0.05                | 8.66       |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 20                  | 8.68     | 0.05                | 8.66       |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2 | 20                  | 8.67     | 1.42                | 8.44       |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3 | 20                  | 8.67     | 1.42                | 8.44       |
| (1,1681) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HB2 | 20                  | 8.67     | 0.12                | 8.66       |
| (1,1681) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HB3 | 20                  | 8.67     | 0.12                | 8.66       |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 20                  | 8.67     | 1.07                | 9.28       |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD1 | 20                  | 8.67     | 0.27                | 8.6        |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD2 | 20                  | 8.67     | 0.27                | 8.6        |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 20                  | 8.67     | 0.46                | 8.66       |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 20                  | 8.67     | 0.46                | 8.66       |
| (1,1794) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HA   | 20                  | 8.67     | 0.22                | 8.63       |
| (1,2446) | 1:A:9:PRO:HD2   | 1:A:27:GLY:H   | 20                  | 8.66     | 0.17                | 8.7        |
| (1,2446) | 1:A:9:PRO:HD3   | 1:A:27:GLY:H   | 20                  | 8.66     | 0.17                | 8.7        |
| (1,2397) | 1:A:9:PRO:HG3   | 1:A:25:TYR:H   | 20                  | 8.66     | 0.27                | 8.72       |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 20                  | 8.66     | 0.54                | 8.72       |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 20                  | 8.66     | 1.16                | 9.02       |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 20                  | 8.66     | 1.16                | 9.02       |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H   | 20                  | 8.65     | 0.13                | 8.6        |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB2 | 20                  | 8.65     | 0.92                | 8.5        |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB3 | 20                  | 8.65     | 0.92                | 8.5        |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 20                  | 8.64     | 0.1                 | 8.62       |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 20                  | 8.64     | 0.04                | 8.66       |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 20                  | 8.64     | 0.08                | 8.61       |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 20                  | 8.64     | 0.62                | 8.35       |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 20                  | 8.64     | 0.62                | 8.35       |
| (1,2134) | 1:A:8:GLY:HA3   | 1:A:32:TYR:HD1 | 20                  | 8.64     | 0.27                | 8.62       |
| (1,2134) | 1:A:8:GLY:HA3   | 1:A:32:TYR:HD2 | 20                  | 8.64     | 0.27                | 8.62       |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA2 | 20                  | 8.63     | 0.13                | 8.6        |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA3  | 20                  | 8.63     | 0.13                | 8.6        |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3  | 20                  | 8.63     | 0.23                | 8.73       |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1  | 20                  | 8.63     | 0.1                 | 8.63       |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2  | 20                  | 8.63     | 0.1                 | 8.63       |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA   | 20                  | 8.63     | 1.01                | 8.64       |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 20                  | 8.63     | 1.21                | 9.25       |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 20                  | 8.63     | 1.21                | 9.25       |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE1  | 20                  | 8.63     | 0.14                | 8.64       |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE2  | 20                  | 8.63     | 0.14                | 8.64       |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1  | 20                  | 8.63     | 0.32                | 8.57       |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2  | 20                  | 8.63     | 0.32                | 8.57       |
| (1,2220) | 1:A:9:PRO:HB2   | 1:A:24:GLY:H    | 20                  | 8.63     | 0.29                | 8.73       |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2  | 20                  | 8.63     | 0.8                 | 8.55       |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 20                  | 8.62     | 1.01                | 8.93       |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA   | 20                  | 8.62     | 0.14                | 8.63       |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1  | 20                  | 8.62     | 0.22                | 8.66       |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2  | 20                  | 8.62     | 0.22                | 8.66       |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1  | 20                  | 8.62     | 0.22                | 8.66       |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2  | 20                  | 8.62     | 0.22                | 8.66       |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3  | 20                  | 8.62     | 0.73                | 8.79       |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1  | 20                  | 8.62     | 0.08                | 8.62       |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2  | 20                  | 8.62     | 0.08                | 8.62       |
| (1,1972) | 1:A:7:CYS:H     | 1:A:33:CYS:HA   | 20                  | 8.61     | 0.19                | 8.57       |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2  | 20                  | 8.61     | 0.28                | 8.54       |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3  | 20                  | 8.61     | 0.28                | 8.54       |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1  | 20                  | 8.61     | 0.49                | 8.68       |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2  | 20                  | 8.61     | 0.49                | 8.68       |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 20                  | 8.61     | 0.97                | 9.32       |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3  | 20                  | 8.61     | 0.31                | 8.52       |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H    | 20                  | 8.61     | 0.12                | 8.62       |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 20                  | 8.6      | 0.78                | 8.54       |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 20                  | 8.6      | 0.78                | 8.54       |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 20                  | 8.6      | 0.91                | 8.94       |
| (1,932)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HA   | 20                  | 8.6      | 0.16                | 8.59       |
| (1,932)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HA   | 20                  | 8.6      | 0.16                | 8.59       |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1  | 20                  | 8.59     | 5.3                 | 7.52       |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2  | 20                  | 8.59     | 0.16                | 8.61       |
| (1,1006) | 1:A:3:PRO:HD3   | 1:A:13:GLY:H    | 20                  | 8.59     | 0.15                | 8.61       |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 20                  | 8.59     | 0.49                | 8.43       |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 20                  | 8.59     | 0.49                | 8.43       |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 20                  | 8.59     | 0.49                | 8.43       |
| (1,1639) | 1:A:6:GLN:HB3   | 1:A:19:CYS:H    | 20                  | 8.58     | 0.19                | 8.48       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2054) | 1:A:8:GLY:H     | 1:A:23:TYR:HD1 | 20                  | 8.58     | 0.14                | 8.6        |
| (1,2054) | 1:A:8:GLY:H     | 1:A:23:TYR:HD2 | 20                  | 8.58     | 0.14                | 8.6        |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 20                  | 8.58     | 0.08                | 8.59       |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 20                  | 8.58     | 0.66                | 8.7        |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 20                  | 8.58     | 0.66                | 8.7        |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 20                  | 8.57     | 0.05                | 8.6        |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 20                  | 8.57     | 0.05                | 8.6        |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 20                  | 8.57     | 1.01                | 8.94       |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 20                  | 8.57     | 1.01                | 8.94       |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 20                  | 8.57     | 1.23                | 8.71       |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 20                  | 8.57     | 1.23                | 8.71       |
| (1,1936) | 1:A:7:CYS:H     | 1:A:18:LEU:H   | 20                  | 8.57     | 0.1                 | 8.59       |
| (1,3053) | 1:A:12:GLY:HA3  | 1:A:19:CYS:H   | 20                  | 8.57     | 0.19                | 8.5        |
| (1,2383) | 1:A:9:PRO:HG3   | 1:A:20:CYS:H   | 20                  | 8.57     | 0.26                | 8.66       |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 20                  | 8.57     | 0.08                | 8.58       |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE1 | 20                  | 8.57     | 0.38                | 8.41       |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 20                  | 8.57     | 0.38                | 8.41       |
| (1,2082) | 1:A:8:GLY:HA2   | 1:A:15:ARG:HG2 | 20                  | 8.57     | 1.17                | 8.86       |
| (1,2082) | 1:A:8:GLY:HA2   | 1:A:15:ARG:HG3 | 20                  | 8.57     | 1.17                | 8.86       |
| (1,929)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:H   | 20                  | 8.57     | 0.21                | 8.54       |
| (1,929)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:H   | 20                  | 8.57     | 0.21                | 8.54       |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 20                  | 8.57     | 0.09                | 8.57       |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 20                  | 8.56     | 0.1                 | 8.57       |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 20                  | 8.56     | 0.1                 | 8.57       |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 20                  | 8.56     | 0.1                 | 8.57       |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 20                  | 8.56     | 0.31                | 8.54       |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 20                  | 8.56     | 0.31                | 8.54       |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 20                  | 8.56     | 0.31                | 8.54       |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 20                  | 8.56     | 0.15                | 8.54       |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 20                  | 8.56     | 2.21                | 8.18       |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 20                  | 8.56     | 2.21                | 8.18       |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 20                  | 8.56     | 0.18                | 8.52       |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 20                  | 8.56     | 0.18                | 8.52       |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 20                  | 8.55     | 0.44                | 8.33       |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 20                  | 8.55     | 0.17                | 8.45       |
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 20                  | 8.55     | 0.19                | 8.6        |
| (1,2114) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG2 | 20                  | 8.54     | 0.7                 | 8.62       |
| (1,2008) | 1:A:7:CYS:HB2   | 1:A:29:GLY:H   | 20                  | 8.54     | 0.19                | 8.63       |
| (1,2008) | 1:A:7:CYS:HB3   | 1:A:29:GLY:H   | 20                  | 8.54     | 0.19                | 8.63       |
| (1,730)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:HB2 | 20                  | 8.53     | 0.14                | 8.48       |
| (1,1640) | 1:A:6:GLN:HB3   | 1:A:19:CYS:HA  | 20                  | 8.53     | 0.13                | 8.52       |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 20                  | 8.53     | 0.45                | 8.41       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 20                  | 8.53     | 0.45                | 8.41       |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 20                  | 8.53     | 0.45                | 8.41       |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 20                  | 8.53     | 0.45                | 8.41       |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 20                  | 8.53     | 0.85                | 8.04       |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 20                  | 8.53     | 0.85                | 8.04       |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB2 | 20                  | 8.52     | 0.13                | 8.47       |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB3 | 20                  | 8.52     | 0.13                | 8.47       |
| (1,2332) | 1:A:9:PRO:HG2   | 1:A:25:TYR:H   | 20                  | 8.52     | 0.27                | 8.57       |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 20                  | 8.51     | 0.34                | 8.62       |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 20                  | 8.51     | 0.34                | 8.62       |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 20                  | 8.51     | 0.11                | 8.53       |
| (1,1806) | 1:A:6:GLN:HE21  | 1:A:14:CYS:HB2 | 20                  | 8.51     | 0.13                | 8.48       |
| (1,1806) | 1:A:6:GLN:HE21  | 1:A:14:CYS:HB3 | 20                  | 8.51     | 0.13                | 8.48       |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 20                  | 8.51     | 0.5                 | 8.67       |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 20                  | 8.51     | 0.5                 | 8.67       |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 20                  | 8.5      | 0.2                 | 8.41       |
| (1,2334) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HD1 | 20                  | 8.5      | 0.24                | 8.51       |
| (1,2334) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HD2 | 20                  | 8.5      | 0.24                | 8.51       |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 20                  | 8.5      | 0.46                | 8.41       |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 20                  | 8.5      | 0.46                | 8.41       |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 20                  | 8.5      | 0.75                | 8.14       |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 20                  | 8.5      | 2.62                | 9.11       |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 20                  | 8.5      | 2.62                | 9.11       |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 20                  | 8.49     | 1.0                 | 8.2        |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 20                  | 8.49     | 1.0                 | 8.2        |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 20                  | 8.49     | 1.0                 | 8.2        |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 20                  | 8.49     | 1.0                 | 8.2        |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 20                  | 8.49     | 0.5                 | 8.71       |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB2 | 20                  | 8.48     | 0.3                 | 8.64       |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB3 | 20                  | 8.48     | 0.3                 | 8.64       |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 20                  | 8.47     | 1.32                | 8.34       |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 20                  | 8.47     | 1.32                | 8.34       |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 20                  | 8.46     | 1.62                | 8.32       |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 20                  | 8.46     | 1.62                | 8.32       |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 20                  | 8.46     | 3.86                | 7.25       |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 20                  | 8.45     | 1.46                | 8.28       |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 20                  | 8.45     | 1.46                | 8.28       |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 20                  | 8.45     | 1.46                | 8.28       |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE1 | 20                  | 8.45     | 0.28                | 8.46       |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE2 | 20                  | 8.45     | 0.28                | 8.46       |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 20                  | 8.45     | 0.75                | 7.94       |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 20                  | 8.45     | 0.42                | 8.46       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 20                  | 8.45     | 0.42                | 8.46       |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H    | 20                  | 8.45     | 0.25                | 8.45       |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2  | 20                  | 8.45     | 0.13                | 8.41       |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3  | 20                  | 8.45     | 0.13                | 8.41       |
| (1,2046) | 1:A:8:GLY:H     | 1:A:22:GLN:H    | 20                  | 8.44     | 0.16                | 8.46       |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA   | 20                  | 8.44     | 0.2                 | 8.41       |
| (1,1951) | 1:A:7:CYS:H     | 1:A:22:GLN:HE21 | 20                  | 8.43     | 0.77                | 8.7        |
| (1,1951) | 1:A:7:CYS:H     | 1:A:22:GLN:HE22 | 20                  | 8.43     | 0.77                | 8.7        |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 20                  | 8.43     | 0.74                | 8.02       |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 20                  | 8.43     | 0.74                | 8.02       |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3  | 20                  | 8.43     | 0.04                | 8.44       |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3  | 20                  | 8.43     | 0.1                 | 8.44       |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 20                  | 8.43     | 0.3                 | 8.51       |
| (1,2251) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HH2  | 20                  | 8.42     | 0.05                | 8.43       |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 20                  | 8.42     | 1.26                | 8.74       |
| (1,2324) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HA   | 20                  | 8.42     | 0.43                | 8.64       |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2  | 20                  | 8.42     | 0.04                | 8.41       |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1  | 20                  | 8.42     | 1.71                | 8.43       |
| (1,1647) | 1:A:6:GLN:HB3   | 1:A:22:GLN:H    | 20                  | 8.42     | 0.06                | 8.41       |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2  | 20                  | 8.42     | 1.06                | 7.8        |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3  | 20                  | 8.42     | 1.06                | 7.8        |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 20                  | 8.42     | 0.34                | 8.46       |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 20                  | 8.42     | 0.34                | 8.46       |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2  | 20                  | 8.41     | 0.47                | 8.32       |
| (1,2388) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HA   | 20                  | 8.4      | 0.41                | 8.6        |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2  | 20                  | 8.4      | 0.66                | 8.59       |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3  | 20                  | 8.4      | 0.66                | 8.59       |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 20                  | 8.4      | 1.69                | 8.12       |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 20                  | 8.4      | 1.69                | 8.12       |
| (1,2049) | 1:A:8:GLY:H     | 1:A:22:GLN:HB2  | 20                  | 8.4      | 0.16                | 8.43       |
| (1,2049) | 1:A:8:GLY:H     | 1:A:22:GLN:HB3  | 20                  | 8.4      | 0.16                | 8.43       |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3  | 20                  | 8.4      | 0.07                | 8.39       |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H    | 20                  | 8.4      | 0.21                | 8.4        |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1  | 20                  | 8.4      | 0.31                | 8.43       |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2  | 20                  | 8.4      | 0.31                | 8.43       |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1  | 20                  | 8.4      | 0.31                | 8.43       |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2  | 20                  | 8.4      | 0.31                | 8.43       |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 20                  | 8.38     | 1.38                | 7.76       |
| (1,3112) | 1:A:13:GLY:H    | 1:A:25:TYR:H    | 20                  | 8.38     | 0.11                | 8.38       |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA   | 20                  | 8.38     | 0.23                | 8.37       |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA   | 20                  | 8.38     | 0.23                | 8.37       |
| (1,1870) | 1:A:6:GLN:HE22  | 1:A:10:GLY:HA2  | 20                  | 8.38     | 0.35                | 8.31       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD1 | 20                  | 8.38     | 0.32                | 8.3        |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD2 | 20                  | 8.38     | 0.32                | 8.3        |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG  | 20                  | 8.38     | 0.35                | 8.3        |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 20                  | 8.37     | 0.07                | 8.34       |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 20                  | 8.37     | 0.5                 | 8.49       |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 20                  | 8.37     | 0.5                 | 8.49       |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 20                  | 8.37     | 0.17                | 8.4        |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 20                  | 8.37     | 0.05                | 8.37       |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 20                  | 8.37     | 0.05                | 8.37       |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 20                  | 8.36     | 0.51                | 8.49       |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 20                  | 8.36     | 0.51                | 8.49       |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 20                  | 8.36     | 0.51                | 8.49       |
| (1,1057) | 1:A:4:ASN:H     | 1:A:9:PRO:HD2  | 20                  | 8.35     | 0.06                | 8.34       |
| (1,1057) | 1:A:4:ASN:H     | 1:A:9:PRO:HD3  | 20                  | 8.35     | 0.06                | 8.34       |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 20                  | 8.35     | 0.26                | 8.4        |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 20                  | 8.35     | 0.26                | 8.4        |
| (1,1876) | 1:A:6:GLN:HE22  | 1:A:14:CYS:HB2 | 20                  | 8.35     | 0.13                | 8.36       |
| (1,1876) | 1:A:6:GLN:HE22  | 1:A:14:CYS:HB3 | 20                  | 8.35     | 0.13                | 8.36       |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 20                  | 8.35     | 0.33                | 8.42       |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 20                  | 8.34     | 0.06                | 8.35       |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 20                  | 8.34     | 0.06                | 8.35       |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 20                  | 8.34     | 0.16                | 8.34       |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 20                  | 8.34     | 0.16                | 8.34       |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 20                  | 8.34     | 4.63                | 6.81       |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 20                  | 8.34     | 0.65                | 8.12       |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 20                  | 8.33     | 4.81                | 7.56       |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 20                  | 8.32     | 1.01                | 8.57       |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 20                  | 8.32     | 1.01                | 8.57       |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 20                  | 8.32     | 0.77                | 8.3        |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE1 | 20                  | 8.31     | 0.24                | 8.31       |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE2 | 20                  | 8.31     | 0.24                | 8.31       |
| (1,2591) | 1:A:11:TRP:H    | 1:A:20:CYS:H   | 20                  | 8.31     | 0.06                | 8.32       |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG2 | 20                  | 8.3      | 1.34                | 7.86       |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG3 | 20                  | 8.3      | 1.34                | 7.86       |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB2 | 20                  | 8.3      | 0.08                | 8.3        |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB3 | 20                  | 8.3      | 0.08                | 8.3        |
| (1,3177) | 1:A:14:CYS:H    | 1:A:22:GLN:H   | 20                  | 8.29     | 0.3                 | 8.3        |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 20                  | 8.29     | 0.13                | 8.32       |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 20                  | 8.29     | 0.13                | 8.32       |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 20                  | 8.29     | 0.13                | 8.32       |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 20                  | 8.29     | 0.13                | 8.32       |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 20                  | 8.29     | 0.13                | 8.32       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 20                  | 8.29     | 0.13                | 8.32       |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3 | 20                  | 8.29     | 0.05                | 8.28       |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3 | 20                  | 8.29     | 0.05                | 8.28       |
| (1,1754) | 1:A:6:GLN:HG3   | 1:A:19:CYS:H   | 20                  | 8.28     | 0.25                | 8.19       |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 20                  | 8.28     | 0.14                | 8.3        |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 20                  | 8.28     | 0.17                | 8.18       |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 20                  | 8.28     | 0.52                | 8.23       |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 20                  | 8.28     | 0.52                | 8.23       |
| (1,4654) | 1:A:26:CYS:HB2  | 1:A:29:GLY:HA3 | 20                  | 8.27     | 0.1                 | 8.25       |
| (1,2300) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HH2 | 20                  | 8.27     | 0.05                | 8.26       |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 20                  | 8.27     | 1.43                | 8.6        |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 20                  | 8.26     | 0.11                | 8.32       |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2  | 20                  | 8.26     | 0.28                | 8.44       |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB3  | 20                  | 8.26     | 0.28                | 8.44       |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 20                  | 8.26     | 1.32                | 7.96       |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 20                  | 8.25     | 1.27                | 8.48       |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 20                  | 8.25     | 1.27                | 8.48       |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 20                  | 8.25     | 0.15                | 8.3        |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 20                  | 8.25     | 0.08                | 8.24       |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 20                  | 8.25     | 0.08                | 8.24       |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 20                  | 8.25     | 0.33                | 8.16       |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 20                  | 8.25     | 0.33                | 8.16       |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 20                  | 8.24     | 2.19                | 7.98       |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 20                  | 8.24     | 0.55                | 8.02       |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD1 | 20                  | 8.24     | 0.29                | 8.16       |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD2 | 20                  | 8.24     | 0.29                | 8.16       |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 20                  | 8.24     | 0.07                | 8.23       |
| (1,1822) | 1:A:6:GLN:HE21  | 1:A:21:SER:H   | 20                  | 8.24     | 0.15                | 8.22       |
| (1,1286) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HA  | 20                  | 8.24     | 0.33                | 8.19       |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 20                  | 8.24     | 0.1                 | 8.26       |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 20                  | 8.23     | 0.4                 | 8.14       |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 20                  | 8.23     | 0.13                | 8.17       |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG2 | 20                  | 8.23     | 1.54                | 8.21       |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG3 | 20                  | 8.23     | 1.54                | 8.21       |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 20                  | 8.22     | 0.05                | 8.23       |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 20                  | 8.21     | 0.1                 | 8.2        |
| (1,1724) | 1:A:6:GLN:HG2   | 1:A:27:GLY:H   | 20                  | 8.21     | 0.15                | 8.12       |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 20                  | 8.2      | 0.13                | 8.25       |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 20                  | 8.2      | 0.13                | 8.25       |
| (1,1289) | 1:A:4:ASN:HD21  | 1:A:27:GLY:HA2 | 20                  | 8.19     | 0.18                | 8.2        |
| (1,1289) | 1:A:4:ASN:HD21  | 1:A:27:GLY:HA3 | 20                  | 8.19     | 0.18                | 8.2        |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 20                  | 8.19     | 0.09                | 8.18       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 20                  | 8.19     | 0.09                | 8.18       |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H   | 20                  | 8.19     | 0.97                | 7.5        |
| (1,1142) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HB3 | 20                  | 8.19     | 0.34                | 8.2        |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 20                  | 8.19     | 1.15                | 8.78       |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 20                  | 8.19     | 1.15                | 8.78       |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 20                  | 8.18     | 0.15                | 8.2        |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 20                  | 8.18     | 0.15                | 8.2        |
| (1,1433) | 1:A:5:GLY:H     | 1:A:23:TYR:HD1 | 20                  | 8.18     | 0.27                | 8.12       |
| (1,1433) | 1:A:5:GLY:H     | 1:A:23:TYR:HD2 | 20                  | 8.18     | 0.27                | 8.12       |
| (1,2445) | 1:A:9:PRO:HD2   | 1:A:26:CYS:HB3 | 20                  | 8.18     | 0.15                | 8.12       |
| (1,2445) | 1:A:9:PRO:HD3   | 1:A:26:CYS:HB3 | 20                  | 8.18     | 0.15                | 8.12       |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 20                  | 8.18     | 0.12                | 8.14       |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 20                  | 8.18     | 0.48                | 8.22       |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 20                  | 8.18     | 0.48                | 8.22       |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 20                  | 8.17     | 0.43                | 8.44       |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 20                  | 8.17     | 3.02                | 7.5        |
| (1,2126) | 1:A:8:GLY:HA3   | 1:A:27:GLY:H   | 20                  | 8.17     | 0.17                | 8.19       |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 20                  | 8.16     | 0.1                 | 8.19       |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 20                  | 8.16     | 0.1                 | 8.19       |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB2 | 20                  | 8.16     | 0.17                | 8.16       |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB3 | 20                  | 8.16     | 0.17                | 8.16       |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 20                  | 8.15     | 0.97                | 8.22       |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 20                  | 8.15     | 1.37                | 8.4        |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 20                  | 8.15     | 1.37                | 8.4        |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 20                  | 8.15     | 1.37                | 8.4        |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 20                  | 8.15     | 1.37                | 8.4        |
| (1,1423) | 1:A:5:GLY:H     | 1:A:20:CYS:H   | 20                  | 8.15     | 0.2                 | 8.17       |
| (1,1869) | 1:A:6:GLN:HE22  | 1:A:10:GLY:H   | 20                  | 8.15     | 0.29                | 8.09       |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 20                  | 8.15     | 0.3                 | 8.14       |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 20                  | 8.15     | 0.89                | 8.66       |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 20                  | 8.15     | 0.89                | 8.66       |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 20                  | 8.15     | 0.89                | 8.66       |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H   | 20                  | 8.14     | 0.89                | 8.42       |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 20                  | 8.14     | 0.89                | 7.62       |
| (1,2597) | 1:A:11:TRP:H    | 1:A:26:CYS:HA  | 20                  | 8.14     | 0.11                | 8.14       |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 20                  | 8.13     | 0.14                | 8.2        |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 20                  | 8.13     | 0.15                | 8.2        |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 20                  | 8.13     | 0.15                | 8.2        |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 20                  | 8.13     | 0.15                | 8.2        |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 20                  | 8.13     | 0.99                | 8.54       |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 20                  | 8.13     | 0.99                | 8.54       |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 20                  | 8.13     | 0.99                | 8.54       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 20                  | 8.12     | 0.31                | 8.09       |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 20                  | 8.12     | 0.31                | 8.09       |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 20                  | 8.12     | 0.31                | 8.09       |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 20                  | 8.12     | 0.31                | 8.09       |
| (1,1282) | 1:A:4:ASN:HD21  | 1:A:23:TYR:HB3 | 20                  | 8.12     | 0.4                 | 8.11       |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 20                  | 8.11     | 1.1                 | 8.75       |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 20                  | 8.11     | 1.1                 | 8.75       |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3 | 20                  | 8.11     | 0.13                | 8.09       |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 20                  | 8.11     | 1.04                | 8.09       |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 20                  | 8.11     | 1.04                | 8.09       |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 20                  | 8.11     | 0.15                | 8.09       |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 20                  | 8.11     | 0.15                | 8.09       |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 20                  | 8.11     | 0.15                | 8.09       |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 20                  | 8.11     | 0.15                | 8.09       |
| (1,836)  | 1:A:3:PRO:HB3   | 1:A:7:CYS:H    | 20                  | 8.11     | 0.08                | 8.15       |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 20                  | 8.11     | 0.68                | 7.68       |
| (1,1183) | 1:A:4:ASN:HB3   | 1:A:8:GLY:H    | 20                  | 8.1      | 0.27                | 8.0        |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 20                  | 8.1      | 0.13                | 8.12       |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 20                  | 8.1      | 0.21                | 8.02       |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 20                  | 8.1      | 0.1                 | 8.07       |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA  | 20                  | 8.09     | 0.5                 | 8.16       |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2 | 20                  | 8.09     | 1.96                | 8.68       |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 20                  | 8.09     | 0.57                | 7.74       |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 20                  | 8.09     | 0.06                | 8.09       |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H   | 20                  | 8.09     | 1.01                | 7.35       |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 20                  | 8.08     | 0.45                | 8.34       |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 20                  | 8.08     | 0.46                | 8.0        |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 20                  | 8.08     | 0.46                | 8.0        |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 20                  | 8.07     | 0.67                | 8.2        |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H   | 20                  | 8.07     | 0.94                | 7.4        |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA  | 20                  | 8.07     | 0.3                 | 8.27       |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 20                  | 8.05     | 0.5                 | 8.21       |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 20                  | 8.05     | 0.5                 | 8.21       |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2 | 20                  | 8.05     | 0.13                | 8.11       |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB3 | 20                  | 8.05     | 0.13                | 8.11       |
| (1,2738) | 1:A:11:TRP:HD1  | 1:A:20:CYS:H   | 20                  | 8.05     | 0.05                | 8.07       |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 20                  | 8.04     | 0.11                | 8.02       |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE1 | 20                  | 8.04     | 0.35                | 7.86       |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE2 | 20                  | 8.04     | 0.35                | 7.86       |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H   | 20                  | 8.04     | 0.13                | 7.99       |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 20                  | 8.04     | 0.29                | 8.0        |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 20                  | 8.04     | 0.06                | 8.04       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 20                  | 8.04     | 0.06                | 8.04       |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 20                  | 8.04     | 0.19                | 7.97       |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 20                  | 8.04     | 0.19                | 7.97       |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 20                  | 8.04     | 0.91                | 7.5        |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 20                  | 8.03     | 0.18                | 8.1        |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD1 | 20                  | 8.03     | 0.34                | 7.86       |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD2 | 20                  | 8.03     | 0.34                | 7.86       |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 20                  | 8.03     | 0.17                | 8.11       |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 20                  | 8.02     | 0.55                | 7.94       |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 20                  | 8.02     | 0.55                | 7.94       |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 20                  | 8.02     | 0.55                | 7.94       |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 20                  | 8.02     | 0.55                | 7.94       |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 20                  | 8.02     | 1.09                | 8.8        |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 20                  | 8.02     | 1.09                | 8.8        |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 20                  | 8.02     | 1.09                | 8.8        |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 20                  | 8.02     | 0.61                | 8.09       |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 20                  | 8.02     | 0.61                | 8.09       |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 20                  | 8.02     | 0.61                | 8.09       |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 20                  | 8.01     | 0.13                | 7.97       |
| (1,1739) | 1:A:6:GLN:HG3   | 1:A:9:PRO:HA   | 20                  | 8.01     | 0.04                | 8.02       |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 20                  | 8.01     | 0.15                | 8.04       |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 20                  | 8.01     | 0.06                | 8.0        |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 20                  | 8.01     | 0.06                | 8.0        |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 20                  | 8.01     | 1.09                | 8.25       |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 20                  | 8.01     | 1.09                | 8.25       |
| (1,1648) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HA  | 20                  | 8.0      | 0.07                | 8.0        |
| (1,1152) | 1:A:4:ASN:HB2   | 1:A:23:TYR:H   | 20                  | 8.0      | 0.4                 | 8.01       |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 20                  | 8.0      | 0.66                | 8.19       |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 20                  | 8.0      | 0.66                | 8.19       |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 20                  | 8.0      | 1.87                | 7.98       |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 20                  | 8.0      | 2.62                | 6.88       |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 20                  | 8.0      | 2.62                | 6.88       |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 20                  | 8.0      | 2.62                | 6.88       |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 20                  | 8.0      | 2.62                | 6.88       |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB2 | 20                  | 8.0      | 0.81                | 7.75       |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB3 | 20                  | 8.0      | 0.81                | 7.75       |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 20                  | 7.99     | 0.5                 | 7.72       |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2 | 20                  | 7.99     | 0.5                 | 7.72       |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3 | 20                  | 7.99     | 0.35                | 7.99       |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD2 | 20                  | 7.99     | 1.59                | 7.84       |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD3 | 20                  | 7.99     | 1.59                | 7.84       |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H   | 20                  | 7.98     | 0.2                 | 7.86       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 20                  | 7.97     | 0.98                | 8.02       |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 20                  | 7.97     | 0.98                | 8.02       |
| (1,1796) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HG2   | 20                  | 7.97     | 0.14                | 7.91       |
| (1,1796) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HG3   | 20                  | 7.97     | 0.14                | 7.91       |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 20                  | 7.97     | 0.99                | 8.25       |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 20                  | 7.97     | 0.45                | 8.07       |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 20                  | 7.97     | 0.45                | 8.07       |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 20                  | 7.97     | 0.06                | 7.96       |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 20                  | 7.96     | 0.05                | 7.96       |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 20                  | 7.96     | 1.13                | 7.45       |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 20                  | 7.96     | 1.13                | 7.45       |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 20                  | 7.96     | 1.13                | 7.45       |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 20                  | 7.96     | 1.13                | 7.45       |
| (1,1076) | 1:A:4:ASN:H     | 1:A:21:SER:H    | 20                  | 7.96     | 0.19                | 7.92       |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 20                  | 7.95     | 0.06                | 7.95       |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 20                  | 7.95     | 0.42                | 8.04       |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3  | 20                  | 7.95     | 0.32                | 7.91       |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 20                  | 7.94     | 0.19                | 7.92       |
| (1,1756) | 1:A:6:GLN:HG3   | 1:A:20:CYS:H    | 20                  | 7.94     | 0.16                | 7.93       |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H    | 20                  | 7.94     | 1.8                 | 7.58       |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA   | 20                  | 7.93     | 0.37                | 8.11       |
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H    | 20                  | 7.93     | 0.15                | 7.94       |
| (1,753)  | 1:A:3:PRO:HA    | 1:A:11:TRP:HE1  | 20                  | 7.93     | 0.11                | 7.96       |
| (1,1095) | 1:A:4:ASN:H     | 1:A:27:GLY:H    | 20                  | 7.93     | 0.17                | 7.9        |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE21 | 20                  | 7.93     | 1.2                 | 8.34       |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE21 | 20                  | 7.93     | 1.2                 | 8.34       |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE22 | 20                  | 7.93     | 1.2                 | 8.34       |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE22 | 20                  | 7.93     | 1.2                 | 8.34       |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 20                  | 7.93     | 0.03                | 7.93       |
| (1,979)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:HB3  | 20                  | 7.93     | 0.14                | 7.94       |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2  | 20                  | 7.92     | 1.56                | 8.25       |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3  | 20                  | 7.92     | 1.56                | 8.25       |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2  | 20                  | 7.92     | 1.43                | 8.36       |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H    | 20                  | 7.92     | 0.33                | 7.9        |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H    | 20                  | 7.92     | 0.33                | 7.9        |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1  | 20                  | 7.92     | 0.65                | 8.02       |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2  | 20                  | 7.92     | 0.65                | 8.02       |
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE1  | 20                  | 7.92     | 0.31                | 7.86       |
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE2  | 20                  | 7.92     | 0.31                | 7.86       |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 20                  | 7.91     | 0.79                | 7.57       |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 20                  | 7.91     | 0.79                | 7.57       |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H    | 20                  | 7.91     | 0.12                | 7.94       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H    | 20                  | 7.91     | 0.12                | 7.94       |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB2  | 20                  | 7.91     | 0.08                | 7.94       |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB3  | 20                  | 7.91     | 0.08                | 7.94       |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2  | 20                  | 7.91     | 0.14                | 7.84       |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD21 | 20                  | 7.91     | 0.3                 | 7.83       |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD22 | 20                  | 7.91     | 0.3                 | 7.83       |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD23 | 20                  | 7.91     | 0.3                 | 7.83       |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H    | 20                  | 7.9      | 0.64                | 7.96       |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H    | 20                  | 7.9      | 0.64                | 7.96       |
| (1,1705) | 1:A:6:GLN:HG2   | 1:A:13:GLY:H    | 20                  | 7.9      | 0.09                | 7.94       |
| (1,1897) | 1:A:6:GLN:HE22  | 1:A:26:CYS:HA   | 20                  | 7.9      | 0.15                | 7.89       |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA   | 20                  | 7.9      | 1.24                | 8.34       |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H    | 20                  | 7.9      | 0.78                | 8.09       |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H    | 20                  | 7.9      | 0.12                | 7.96       |
| (1,1330) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HE1  | 20                  | 7.89     | 0.66                | 8.22       |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD11 | 20                  | 7.89     | 0.18                | 7.84       |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD12 | 20                  | 7.89     | 0.18                | 7.84       |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD13 | 20                  | 7.89     | 0.18                | 7.84       |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 20                  | 7.89     | 0.12                | 7.87       |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2  | 20                  | 7.89     | 0.59                | 8.19       |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 20                  | 7.88     | 0.13                | 7.88       |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA   | 20                  | 7.88     | 0.2                 | 7.86       |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 20                  | 7.88     | 0.25                | 7.86       |
| (1,771)  | 1:A:3:PRO:HB2   | 1:A:7:CYS:H     | 20                  | 7.88     | 0.05                | 7.9        |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H    | 20                  | 7.88     | 0.13                | 7.9        |
| (1,2438) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HG3  | 20                  | 7.88     | 0.78                | 8.15       |
| (1,2438) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HG3  | 20                  | 7.88     | 0.78                | 8.15       |
| (1,1402) | 1:A:5:GLY:H     | 1:A:9:PRO:HD2   | 20                  | 7.87     | 0.04                | 7.86       |
| (1,1402) | 1:A:5:GLY:H     | 1:A:9:PRO:HD3   | 20                  | 7.87     | 0.04                | 7.86       |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 20                  | 7.86     | 0.27                | 7.79       |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 20                  | 7.86     | 0.27                | 7.79       |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 20                  | 7.86     | 0.15                | 7.89       |
| (1,1000) | 1:A:3:PRO:HD3   | 1:A:8:GLY:H     | 20                  | 7.86     | 0.08                | 7.87       |
| (1,1872) | 1:A:6:GLN:HE22  | 1:A:12:GLY:HA3  | 20                  | 7.86     | 0.28                | 7.85       |
| (1,1189) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HA   | 20                  | 7.86     | 0.31                | 7.94       |
| (1,1505) | 1:A:6:GLN:H     | 1:A:9:PRO:HG2   | 20                  | 7.85     | 0.07                | 7.81       |
| (1,1505) | 1:A:6:GLN:H     | 1:A:9:PRO:HG3   | 20                  | 7.85     | 0.07                | 7.81       |
| (1,1976) | 1:A:7:CYS:HA    | 1:A:22:GLN:H    | 20                  | 7.85     | 0.09                | 7.86       |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3  | 20                  | 7.85     | 0.1                 | 7.88       |
| (1,2741) | 1:A:11:TRP:HD1  | 1:A:21:SER:HG   | 20                  | 7.85     | 0.17                | 7.88       |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 20                  | 7.85     | 0.33                | 7.84       |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 20                  | 7.85     | 0.33                | 7.84       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 20                  | 7.85     | 1.52                | 6.79       |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 20                  | 7.85     | 0.17                | 7.78       |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2 | 20                  | 7.84     | 0.12                | 7.85       |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3 | 20                  | 7.84     | 0.12                | 7.85       |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 20                  | 7.84     | 0.25                | 7.82       |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 20                  | 7.84     | 0.25                | 7.82       |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2 | 20                  | 7.83     | 0.8                 | 7.44       |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3 | 20                  | 7.83     | 0.8                 | 7.44       |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG2 | 20                  | 7.83     | 1.22                | 7.5        |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG3 | 20                  | 7.83     | 1.22                | 7.5        |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 20                  | 7.83     | 0.03                | 7.82       |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 20                  | 7.83     | 0.03                | 7.82       |
| (1,1989) | 1:A:7:CYS:HB2   | 1:A:17:GLY:HA2 | 20                  | 7.82     | 0.13                | 7.8        |
| (1,1989) | 1:A:7:CYS:HB3   | 1:A:17:GLY:HA2 | 20                  | 7.82     | 0.13                | 7.8        |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 20                  | 7.82     | 0.86                | 7.91       |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 20                  | 7.82     | 0.86                | 7.91       |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 20                  | 7.81     | 0.14                | 7.86       |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA  | 20                  | 7.81     | 0.23                | 7.77       |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 20                  | 7.81     | 1.51                | 7.71       |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 20                  | 7.8      | 0.41                | 7.72       |
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 20                  | 7.8      | 0.07                | 7.8        |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 20                  | 7.8      | 0.07                | 7.8        |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H   | 20                  | 7.8      | 0.09                | 7.82       |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 20                  | 7.8      | 0.51                | 7.69       |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 20                  | 7.8      | 0.51                | 7.69       |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 20                  | 7.8      | 0.88                | 7.44       |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 20                  | 7.8      | 0.88                | 7.44       |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 20                  | 7.8      | 2.1                 | 7.4        |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 20                  | 7.8      | 2.1                 | 7.4        |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 20                  | 7.8      | 0.9                 | 7.54       |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 20                  | 7.8      | 0.9                 | 7.54       |
| (1,1834) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HA  | 20                  | 7.79     | 0.13                | 7.74       |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 20                  | 7.79     | 0.36                | 7.6        |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 20                  | 7.79     | 0.21                | 7.85       |
| (1,1645) | 1:A:6:GLN:HB3   | 1:A:21:SER:HB2 | 20                  | 7.79     | 0.06                | 7.77       |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB2 | 20                  | 7.78     | 0.27                | 7.84       |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB3 | 20                  | 7.78     | 0.27                | 7.84       |
| (1,632)  | 1:A:2:GLY:H     | 1:A:21:SER:HG  | 20                  | 7.78     | 0.16                | 7.82       |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 20                  | 7.78     | 0.13                | 7.82       |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 20                  | 7.78     | 0.13                | 7.82       |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE  | 20                  | 7.78     | 1.76                | 7.69       |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 20                  | 7.78     | 0.18                | 7.74       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 20                  | 7.78     | 0.18                | 7.74       |
| (1,2013) | 1:A:7:CYS:HB2   | 1:A:32:TYR:H   | 20                  | 7.78     | 0.17                | 7.8        |
| (1,2013) | 1:A:7:CYS:HB3   | 1:A:32:TYR:H   | 20                  | 7.78     | 0.17                | 7.8        |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 20                  | 7.78     | 0.05                | 7.78       |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 20                  | 7.78     | 0.05                | 7.78       |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 20                  | 7.77     | 0.32                | 7.83       |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 20                  | 7.77     | 0.32                | 7.83       |
| (1,1829) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HA  | 20                  | 7.77     | 0.34                | 7.81       |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 20                  | 7.77     | 0.27                | 7.65       |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 20                  | 7.77     | 0.27                | 7.65       |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 20                  | 7.77     | 0.11                | 7.78       |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H   | 20                  | 7.77     | 1.09                | 7.87       |
| (1,1069) | 1:A:4:ASN:H     | 1:A:18:LEU:HB3 | 20                  | 7.77     | 0.31                | 7.74       |
| (1,1487) | 1:A:5:GLY:HA3   | 1:A:22:GLN:H   | 20                  | 7.77     | 0.22                | 7.72       |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 20                  | 7.77     | 0.86                | 7.88       |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 20                  | 7.77     | 0.86                | 7.88       |
| (1,1949) | 1:A:7:CYS:H     | 1:A:22:GLN:HG2 | 20                  | 7.76     | 0.67                | 7.57       |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB2  | 20                  | 7.76     | 0.18                | 7.7        |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB3  | 20                  | 7.76     | 0.18                | 7.7        |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB2 | 20                  | 7.76     | 0.12                | 7.77       |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB3 | 20                  | 7.76     | 0.12                | 7.77       |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 20                  | 7.76     | 0.17                | 7.67       |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 20                  | 7.76     | 0.12                | 7.78       |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 20                  | 7.76     | 0.12                | 7.78       |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 20                  | 7.76     | 0.12                | 7.78       |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1 | 20                  | 7.75     | 0.15                | 7.72       |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2 | 20                  | 7.75     | 0.15                | 7.72       |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 20                  | 7.73     | 0.4                 | 7.85       |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 20                  | 7.73     | 0.13                | 7.74       |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 20                  | 7.73     | 0.13                | 7.74       |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 20                  | 7.73     | 0.13                | 7.74       |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 20                  | 7.73     | 0.13                | 7.74       |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 20                  | 7.72     | 1.19                | 7.6        |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 20                  | 7.72     | 1.19                | 7.6        |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 20                  | 7.71     | 0.82                | 7.37       |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 20                  | 7.71     | 0.82                | 7.37       |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 20                  | 7.71     | 0.09                | 7.72       |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 20                  | 7.71     | 0.14                | 7.7        |
| (1,1799) | 1:A:6:GLN:HE21  | 1:A:10:GLY:HA2 | 20                  | 7.7      | 0.31                | 7.7        |
| (1,2113) | 1:A:8:GLY:HA3   | 1:A:22:GLN:H   | 20                  | 7.7      | 0.25                | 7.82       |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 20                  | 7.7      | 0.09                | 7.67       |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 20                  | 7.7      | 0.09                | 7.67       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2108) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HB2 | 20                  | 7.69     | 0.15                | 7.65       |
| (1,2108) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HB3 | 20                  | 7.69     | 0.15                | 7.65       |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 20                  | 7.69     | 0.09                | 7.7        |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 20                  | 7.68     | 0.54                | 7.94       |
| (1,2003) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HE1 | 20                  | 7.68     | 0.29                | 7.75       |
| (1,2003) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HE2 | 20                  | 7.68     | 0.29                | 7.75       |
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE1 | 20                  | 7.68     | 0.29                | 7.75       |
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE2 | 20                  | 7.68     | 0.29                | 7.75       |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 20                  | 7.67     | 0.92                | 8.32       |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 20                  | 7.67     | 0.92                | 8.32       |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 20                  | 7.67     | 0.92                | 8.32       |
| (1,1403) | 1:A:5:GLY:H     | 1:A:10:GLY:HA2 | 20                  | 7.67     | 0.14                | 7.58       |
| (1,1403) | 1:A:5:GLY:H     | 1:A:10:GLY:HA3 | 20                  | 7.67     | 0.14                | 7.58       |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 20                  | 7.67     | 0.48                | 7.78       |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 20                  | 7.67     | 0.48                | 7.78       |
| (1,1968) | 1:A:7:CYS:H     | 1:A:32:TYR:HA  | 20                  | 7.67     | 0.14                | 7.6        |
| (1,2296) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE3 | 20                  | 7.67     | 0.03                | 7.66       |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 20                  | 7.67     | 0.74                | 7.47       |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 20                  | 7.67     | 0.09                | 7.67       |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 20                  | 7.67     | 0.09                | 7.67       |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 20                  | 7.67     | 0.09                | 7.67       |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2 | 20                  | 7.66     | 1.36                | 7.38       |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3 | 20                  | 7.66     | 1.36                | 7.38       |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 20                  | 7.66     | 0.53                | 7.64       |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 20                  | 7.66     | 0.53                | 7.64       |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 20                  | 7.66     | 1.13                | 7.3        |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 20                  | 7.66     | 0.14                | 7.67       |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 20                  | 7.66     | 0.14                | 7.67       |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 20                  | 7.66     | 0.14                | 7.67       |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 20                  | 7.66     | 0.88                | 7.88       |
| (1,1518) | 1:A:6:GLN:H     | 1:A:19:CYS:HA  | 20                  | 7.66     | 0.22                | 7.64       |
| (1,1126) | 1:A:4:ASN:HB2   | 1:A:11:TRP:H   | 20                  | 7.65     | 0.17                | 7.62       |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2 | 20                  | 7.65     | 0.79                | 7.67       |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3 | 20                  | 7.65     | 0.79                | 7.67       |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 20                  | 7.65     | 0.91                | 8.1        |
| (1,1930) | 1:A:7:CYS:H     | 1:A:15:ARG:HB2 | 20                  | 7.65     | 0.73                | 7.34       |
| (1,1930) | 1:A:7:CYS:H     | 1:A:15:ARG:HB3 | 20                  | 7.65     | 0.73                | 7.34       |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 20                  | 7.65     | 0.83                | 7.86       |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 20                  | 7.65     | 0.83                | 7.86       |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 20                  | 7.65     | 0.26                | 7.61       |
| (1,1747) | 1:A:6:GLN:HG3   | 1:A:13:GLY:H   | 20                  | 7.65     | 0.04                | 7.65       |
| (1,3011) | 1:A:12:GLY:H    | 1:A:25:TYR:H   | 20                  | 7.64     | 0.13                | 7.67       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 20                  | 7.64     | 0.03                | 7.63       |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 20                  | 7.64     | 0.03                | 7.63       |
| (1,2303) | 1:A:9:PRO:HG2   | 1:A:13:GLY:H   | 20                  | 7.63     | 0.05                | 7.64       |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1 | 20                  | 7.63     | 0.25                | 7.58       |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2 | 20                  | 7.63     | 0.25                | 7.58       |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 20                  | 7.62     | 0.16                | 7.62       |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 20                  | 7.62     | 0.16                | 7.62       |
| (1,2197) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HZ3 | 20                  | 7.62     | 0.05                | 7.63       |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2 | 20                  | 7.62     | 0.23                | 7.65       |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 20                  | 7.62     | 1.16                | 8.12       |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3 | 20                  | 7.61     | 0.76                | 7.62       |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3 | 20                  | 7.61     | 0.76                | 7.62       |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 20                  | 7.61     | 0.33                | 7.66       |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 20                  | 7.61     | 0.33                | 7.66       |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 20                  | 7.61     | 0.18                | 7.64       |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 20                  | 7.6      | 0.17                | 7.61       |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD2 | 20                  | 7.59     | 1.63                | 7.62       |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD3 | 20                  | 7.59     | 1.63                | 7.62       |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 20                  | 7.59     | 0.09                | 7.57       |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 20                  | 7.59     | 0.09                | 7.57       |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2 | 20                  | 7.58     | 0.16                | 7.6        |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3 | 20                  | 7.58     | 0.16                | 7.6        |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 20                  | 7.58     | 0.74                | 7.48       |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 20                  | 7.58     | 0.06                | 7.59       |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 20                  | 7.58     | 0.06                | 7.59       |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 20                  | 7.58     | 0.25                | 7.58       |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 20                  | 7.58     | 0.25                | 7.58       |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 20                  | 7.57     | 0.24                | 7.64       |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 20                  | 7.56     | 0.12                | 7.59       |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 20                  | 7.56     | 0.12                | 7.59       |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 20                  | 7.56     | 0.12                | 7.59       |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 20                  | 7.56     | 0.18                | 7.6        |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 20                  | 7.56     | 0.18                | 7.6        |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA2 | 20                  | 7.56     | 0.16                | 7.62       |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA3 | 20                  | 7.56     | 0.16                | 7.62       |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 20                  | 7.55     | 0.17                | 7.57       |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 20                  | 7.55     | 0.11                | 7.55       |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 20                  | 7.55     | 0.11                | 7.55       |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 20                  | 7.55     | 1.49                | 7.53       |
| (1,2436) | 1:A:9:PRO:HD2   | 1:A:22:GLN:H   | 20                  | 7.54     | 0.28                | 7.68       |
| (1,2436) | 1:A:9:PRO:HD3   | 1:A:22:GLN:H   | 20                  | 7.54     | 0.28                | 7.68       |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 20                  | 7.54     | 0.92                | 6.98       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3  | 20                  | 7.54     | 0.92                | 6.98       |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H    | 20                  | 7.54     | 1.09                | 8.16       |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA   | 20                  | 7.54     | 0.12                | 7.5        |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 20                  | 7.53     | 0.5                 | 7.44       |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 20                  | 7.53     | 0.5                 | 7.44       |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2  | 20                  | 7.53     | 0.58                | 7.52       |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2  | 20                  | 7.53     | 0.58                | 7.52       |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3  | 20                  | 7.53     | 0.58                | 7.52       |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3  | 20                  | 7.53     | 0.58                | 7.52       |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H    | 20                  | 7.53     | 0.68                | 7.4        |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 20                  | 7.53     | 0.12                | 7.54       |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H    | 20                  | 7.53     | 1.05                | 7.04       |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 20                  | 7.53     | 0.7                 | 7.75       |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 20                  | 7.53     | 0.7                 | 7.75       |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 20                  | 7.53     | 0.7                 | 7.75       |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 20                  | 7.53     | 0.7                 | 7.75       |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 20                  | 7.52     | 0.12                | 7.47       |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 20                  | 7.52     | 1.51                | 7.28       |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 20                  | 7.52     | 1.51                | 7.28       |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 20                  | 7.51     | 0.1                 | 7.5        |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 20                  | 7.51     | 0.1                 | 7.5        |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 20                  | 7.51     | 0.09                | 7.54       |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 20                  | 7.5      | 1.55                | 7.2        |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 20                  | 7.5      | 1.55                | 7.2        |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG   | 20                  | 7.5      | 0.13                | 7.51       |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 20                  | 7.5      | 0.24                | 7.42       |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 20                  | 7.5      | 0.24                | 7.42       |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 20                  | 7.5      | 0.24                | 7.42       |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 20                  | 7.5      | 0.16                | 7.44       |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 20                  | 7.49     | 0.07                | 7.52       |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 20                  | 7.49     | 0.07                | 7.52       |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2  | 20                  | 7.48     | 0.04                | 7.46       |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3  | 20                  | 7.48     | 0.04                | 7.46       |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2  | 20                  | 7.48     | 1.17                | 7.7        |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3  | 20                  | 7.48     | 1.17                | 7.7        |
| (1,4551) | 1:A:25:TYR:HB3 | 1:A:32:TYR:H    | 20                  | 7.48     | 0.06                | 7.48       |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2  | 20                  | 7.47     | 0.03                | 7.47       |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 20                  | 7.47     | 0.1                 | 7.46       |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H    | 20                  | 7.47     | 0.17                | 7.45       |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 20                  | 7.47     | 0.18                | 7.53       |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 20                  | 7.47     | 0.18                | 7.5        |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2  | 20                  | 7.46     | 0.09                | 7.47       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3  | 20                  | 7.46     | 0.09                | 7.47       |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 20                  | 7.46     | 0.34                | 7.3        |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3  | 20                  | 7.46     | 0.21                | 7.46       |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2  | 20                  | 7.46     | 1.0                 | 7.7        |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3  | 20                  | 7.45     | 0.08                | 7.42       |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H    | 20                  | 7.45     | 0.06                | 7.46       |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA   | 20                  | 7.45     | 1.57                | 7.41       |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA   | 20                  | 7.44     | 0.16                | 7.44       |
| (1,2688) | 1:A:11:TRP:HB3  | 1:A:21:SER:H    | 20                  | 7.43     | 0.09                | 7.4        |
| (1,2961) | 1:A:11:TRP:HH2  | 1:A:12:GLY:HA3  | 20                  | 7.43     | 0.01                | 7.43       |
| (1,1824) | 1:A:6:GLN:HE21  | 1:A:21:SER:HG   | 20                  | 7.42     | 0.21                | 7.42       |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA   | 20                  | 7.41     | 1.17                | 7.85       |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H    | 20                  | 7.41     | 0.09                | 7.39       |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H    | 20                  | 7.41     | 0.09                | 7.39       |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB1  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB2  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB3  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB1  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB2  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB3  | 20                  | 7.41     | 0.81                | 7.82       |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H    | 20                  | 7.41     | 0.07                | 7.42       |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H    | 20                  | 7.4      | 0.1                 | 7.44       |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1  | 20                  | 7.4      | 0.33                | 7.4        |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2  | 20                  | 7.4      | 0.33                | 7.4        |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1  | 20                  | 7.4      | 0.33                | 7.4        |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2  | 20                  | 7.4      | 0.33                | 7.4        |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H    | 20                  | 7.39     | 0.04                | 7.41       |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 20                  | 7.39     | 0.15                | 7.4        |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1  | 20                  | 7.39     | 2.38                | 7.86       |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1  | 20                  | 7.39     | 2.38                | 7.86       |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 20                  | 7.39     | 0.22                | 7.32       |
| (1,1642) | 1:A:6:GLN:HB3   | 1:A:20:CYS:H    | 20                  | 7.39     | 0.08                | 7.38       |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE1  | 20                  | 7.39     | 0.1                 | 7.38       |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE2  | 20                  | 7.39     | 0.1                 | 7.38       |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2  | 20                  | 7.39     | 0.1                 | 7.44       |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3  | 20                  | 7.39     | 0.1                 | 7.44       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 20                  | 7.38     | 0.16                | 7.34       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD12 | 20                  | 7.38     | 0.16                | 7.34       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD13 | 20                  | 7.38     | 0.16                | 7.34       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD21 | 20                  | 7.38     | 0.16                | 7.34       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD22 | 20                  | 7.38     | 0.16                | 7.34       |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD23 | 20                  | 7.38     | 0.16                | 7.34       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1798) | 1:A:6:GLN:HE21  | 1:A:10:GLY:H    | 20                  | 7.38     | 0.26                | 7.36       |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 20                  | 7.38     | 1.54                | 7.6        |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H    | 20                  | 7.37     | 0.6                 | 7.52       |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2  | 20                  | 7.37     | 1.36                | 7.29       |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3  | 20                  | 7.37     | 1.36                | 7.29       |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 20                  | 7.37     | 1.58                | 7.17       |
| (1,2249) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE3  | 20                  | 7.37     | 0.03                | 7.37       |
| (1,1771) | 1:A:6:GLN:HG3   | 1:A:27:GLY:HA2  | 20                  | 7.37     | 0.19                | 7.26       |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 20                  | 7.36     | 0.09                | 7.37       |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 20                  | 7.36     | 0.38                | 7.38       |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 20                  | 7.36     | 0.38                | 7.38       |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG   | 20                  | 7.36     | 0.2                 | 7.3        |
| (1,2052) | 1:A:8:GLY:H     | 1:A:23:TYR:H    | 20                  | 7.36     | 0.16                | 7.38       |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 20                  | 7.36     | 0.09                | 7.37       |
| (1,2144) | 1:A:9:PRO:HA    | 1:A:11:TRP:HH2  | 20                  | 7.36     | 0.04                | 7.36       |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H    | 20                  | 7.35     | 0.88                | 7.82       |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 20                  | 7.35     | 0.26                | 7.35       |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 20                  | 7.35     | 0.26                | 7.35       |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 20                  | 7.35     | 0.2                 | 7.39       |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3  | 20                  | 7.35     | 1.74                | 7.68       |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3  | 20                  | 7.34     | 0.24                | 7.36       |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA   | 20                  | 7.34     | 0.75                | 7.52       |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1  | 20                  | 7.34     | 0.09                | 7.3        |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H    | 20                  | 7.34     | 0.28                | 7.3        |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 20                  | 7.33     | 0.59                | 7.46       |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 20                  | 7.33     | 0.59                | 7.46       |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 20                  | 7.33     | 0.59                | 7.46       |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2  | 20                  | 7.33     | 2.31                | 7.76       |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 20                  | 7.33     | 0.13                | 7.26       |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 20                  | 7.33     | 0.13                | 7.26       |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 20                  | 7.33     | 0.76                | 7.68       |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 20                  | 7.33     | 0.76                | 7.68       |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2  | 20                  | 7.32     | 0.81                | 6.95       |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3  | 20                  | 7.32     | 0.81                | 6.95       |
| (1,2142) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ3  | 20                  | 7.32     | 0.04                | 7.33       |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 20                  | 7.32     | 0.22                | 7.28       |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 20                  | 7.32     | 0.96                | 7.24       |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 20                  | 7.32     | 0.96                | 7.24       |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3  | 20                  | 7.32     | 0.25                | 7.31       |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H    | 20                  | 7.32     | 0.53                | 7.05       |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA   | 20                  | 7.31     | 0.13                | 7.36       |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 20                  | 7.3      | 0.78                | 7.48       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 20                  | 7.3      | 0.78                | 7.48       |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 20                  | 7.3      | 0.31                | 7.1        |
| (1,1411) | 1:A:5:GLY:H     | 1:A:13:GLY:HA3  | 20                  | 7.3      | 0.14                | 7.35       |
| (1,2040) | 1:A:8:GLY:H     | 1:A:19:CYS:H    | 20                  | 7.3      | 0.1                 | 7.32       |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA   | 20                  | 7.3      | 0.82                | 7.56       |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H    | 20                  | 7.3      | 0.31                | 7.39       |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2  | 20                  | 7.29     | 0.17                | 7.29       |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3  | 20                  | 7.29     | 0.17                | 7.29       |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 20                  | 7.29     | 0.59                | 7.11       |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 20                  | 7.28     | 1.02                | 7.63       |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H    | 20                  | 7.28     | 0.13                | 7.29       |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H    | 20                  | 7.28     | 0.13                | 7.29       |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H    | 20                  | 7.28     | 0.13                | 7.29       |
| (1,1697) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HA    | 20                  | 7.28     | 0.06                | 7.29       |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H    | 20                  | 7.28     | 0.03                | 7.28       |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2  | 20                  | 7.28     | 0.07                | 7.26       |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22  | 20                  | 7.28     | 0.56                | 7.66       |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA   | 20                  | 7.27     | 0.15                | 7.31       |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 20                  | 7.27     | 0.27                | 7.36       |
| (1,2121) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HB3  | 20                  | 7.27     | 0.2                 | 7.31       |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB2  | 20                  | 7.27     | 0.28                | 7.3        |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB3  | 20                  | 7.27     | 0.28                | 7.3        |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H    | 20                  | 7.27     | 1.12                | 8.03       |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H    | 20                  | 7.26     | 0.89                | 6.63       |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 20                  | 7.26     | 0.61                | 7.46       |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 20                  | 7.26     | 0.61                | 7.46       |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 20                  | 7.26     | 1.24                | 7.6        |
| (1,1664) | 1:A:6:GLN:HB3   | 1:A:27:GLY:H    | 20                  | 7.25     | 0.12                | 7.18       |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H    | 20                  | 7.24     | 0.05                | 7.25       |
| (1,2118) | 1:A:8:GLY:HA3   | 1:A:23:TYR:HB3  | 20                  | 7.24     | 0.24                | 7.28       |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 20                  | 7.24     | 0.15                | 7.22       |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H    | 20                  | 7.24     | 0.14                | 7.26       |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 20                  | 7.24     | 0.32                | 7.14       |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 20                  | 7.24     | 0.32                | 7.14       |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 20                  | 7.24     | 0.32                | 7.14       |
| (1,1319) | 1:A:4:ASN:HD22  | 1:A:7:CYS:H     | 20                  | 7.23     | 0.34                | 7.46       |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD1  | 20                  | 7.23     | 0.34                | 7.08       |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD2  | 20                  | 7.23     | 0.34                | 7.08       |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA2  | 20                  | 7.23     | 0.11                | 7.2        |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA3  | 20                  | 7.23     | 0.11                | 7.2        |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 20                  | 7.22     | 0.18                | 7.19       |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 20                  | 7.22     | 0.06                | 7.22       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 20                  | 7.21     | 0.76                | 6.86       |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 20                  | 7.21     | 1.57                | 7.51       |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB2 | 20                  | 7.21     | 0.62                | 7.05       |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB3 | 20                  | 7.21     | 0.62                | 7.05       |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1 | 20                  | 7.2      | 2.22                | 6.81       |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2 | 20                  | 7.2      | 1.3                 | 7.16       |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3 | 20                  | 7.2      | 1.3                 | 7.16       |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 20                  | 7.2      | 2.64                | 6.26       |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 20                  | 7.2      | 2.64                | 6.26       |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 20                  | 7.2      | 2.1                 | 7.5        |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 20                  | 7.19     | 1.14                | 6.46       |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 20                  | 7.19     | 1.14                | 6.46       |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H   | 20                  | 7.19     | 0.25                | 7.16       |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 20                  | 7.19     | 0.61                | 6.88       |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 20                  | 7.19     | 0.61                | 6.88       |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2 | 20                  | 7.19     | 0.58                | 7.24       |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3 | 20                  | 7.19     | 0.58                | 7.24       |
| (1,1550) | 1:A:6:GLN:HA    | 1:A:9:PRO:HG2  | 20                  | 7.19     | 0.02                | 7.19       |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 20                  | 7.18     | 0.15                | 7.24       |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 20                  | 7.18     | 0.25                | 7.12       |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 20                  | 7.18     | 1.08                | 7.98       |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 20                  | 7.18     | 1.08                | 7.98       |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 20                  | 7.18     | 1.08                | 7.98       |
| (1,1216) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HA  | 20                  | 7.18     | 0.34                | 7.1        |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 20                  | 7.18     | 1.14                | 7.76       |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H   | 20                  | 7.18     | 0.33                | 7.12       |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2 | 20                  | 7.17     | 0.13                | 7.14       |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3 | 20                  | 7.17     | 0.13                | 7.14       |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1 | 20                  | 7.17     | 0.2                 | 7.14       |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2 | 20                  | 7.17     | 0.2                 | 7.14       |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 20                  | 7.17     | 0.04                | 7.16       |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 20                  | 7.17     | 0.39                | 7.18       |
| (1,2677) | 1:A:11:TRP:HB3  | 1:A:15:ARG:H   | 20                  | 7.16     | 0.53                | 6.86       |
| (1,1780) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HD1 | 20                  | 7.16     | 0.35                | 6.98       |
| (1,1780) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HD2 | 20                  | 7.16     | 0.35                | 6.98       |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 20                  | 7.16     | 0.52                | 7.15       |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 20                  | 7.15     | 1.22                | 7.38       |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 20                  | 7.15     | 1.22                | 7.38       |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 20                  | 7.15     | 0.18                | 7.17       |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 20                  | 7.15     | 0.01                | 7.15       |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 20                  | 7.14     | 0.59                | 7.06       |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 20                  | 7.14     | 0.59                | 7.06       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 20                  | 7.14     | 0.35                | 7.19       |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2  | 20                  | 7.14     | 0.35                | 7.19       |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA   | 20                  | 7.14     | 0.21                | 7.16       |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA   | 20                  | 7.14     | 0.21                | 7.16       |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H    | 20                  | 7.14     | 0.58                | 6.89       |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2  | 20                  | 7.14     | 1.17                | 6.4        |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 20                  | 7.14     | 1.17                | 6.4        |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 20                  | 7.13     | 0.14                | 7.19       |
| (1,2017) | 1:A:7:CYS:HB2   | 1:A:33:CYS:H    | 20                  | 7.13     | 0.15                | 7.14       |
| (1,2017) | 1:A:7:CYS:HB3   | 1:A:33:CYS:H    | 20                  | 7.13     | 0.15                | 7.14       |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H    | 20                  | 7.13     | 0.17                | 7.14       |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 20                  | 7.13     | 0.74                | 7.22       |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 20                  | 7.13     | 0.74                | 7.22       |
| (1,2330) | 1:A:9:PRO:HG2   | 1:A:24:GLY:H    | 20                  | 7.12     | 0.32                | 7.22       |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 20                  | 7.11     | 0.15                | 7.12       |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 20                  | 7.11     | 0.15                | 7.12       |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 20                  | 7.11     | 0.15                | 7.12       |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA   | 20                  | 7.11     | 0.27                | 7.15       |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 20                  | 7.11     | 0.17                | 7.1        |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 20                  | 7.11     | 0.17                | 7.1        |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3  | 20                  | 7.1      | 1.85                | 6.9        |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3  | 20                  | 7.1      | 1.85                | 6.9        |
| (1,1541) | 1:A:6:GLN:H     | 1:A:32:TYR:HD1  | 20                  | 7.1      | 0.41                | 6.9        |
| (1,1541) | 1:A:6:GLN:H     | 1:A:32:TYR:HD2  | 20                  | 7.1      | 0.41                | 6.9        |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H    | 20                  | 7.1      | 0.13                | 7.12       |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 20                  | 7.1      | 0.83                | 7.26       |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 20                  | 7.1      | 0.08                | 7.12       |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 20                  | 7.1      | 0.08                | 7.12       |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 20                  | 7.09     | 1.64                | 6.96       |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H    | 20                  | 7.09     | 0.1                 | 7.1        |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H    | 20                  | 7.08     | 0.5                 | 6.82       |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 20                  | 7.08     | 0.07                | 7.07       |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 20                  | 7.08     | 0.07                | 7.07       |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1  | 20                  | 7.08     | 2.74                | 7.16       |
| (1,2367) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HZ2  | 20                  | 7.08     | 0.05                | 7.07       |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3  | 20                  | 7.08     | 0.05                | 7.1        |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2  | 20                  | 7.08     | 0.73                | 6.7        |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3  | 20                  | 7.08     | 0.73                | 6.7        |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2  | 20                  | 7.07     | 0.08                | 7.08       |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3  | 20                  | 7.07     | 0.08                | 7.08       |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 20                  | 7.07     | 0.17                | 7.08       |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 20                  | 7.07     | 0.17                | 7.08       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 20                  | 7.07     | 0.17                | 7.08       |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H    | 20                  | 7.07     | 0.12                | 7.1        |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA   | 20                  | 7.07     | 1.18                | 7.36       |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 20                  | 7.07     | 0.76                | 7.08       |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 20                  | 7.07     | 0.76                | 7.08       |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 20                  | 7.07     | 0.13                | 7.01       |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 20                  | 7.07     | 0.77                | 7.18       |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 20                  | 7.07     | 0.29                | 7.06       |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 20                  | 7.07     | 0.29                | 7.06       |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1  | 20                  | 7.07     | 0.22                | 7.14       |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2  | 20                  | 7.07     | 0.22                | 7.14       |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3  | 20                  | 7.07     | 0.22                | 7.14       |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 20                  | 7.06     | 0.07                | 7.04       |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H    | 20                  | 7.06     | 0.3                 | 6.98       |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H    | 20                  | 7.06     | 0.3                 | 6.98       |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H    | 20                  | 7.06     | 0.3                 | 6.98       |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H    | 20                  | 7.06     | 0.51                | 7.13       |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H    | 20                  | 7.06     | 0.51                | 7.13       |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1  | 20                  | 7.06     | 0.24                | 7.1        |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2  | 20                  | 7.06     | 0.24                | 7.1        |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3  | 20                  | 7.06     | 0.15                | 7.06       |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 20                  | 7.06     | 0.06                | 7.07       |
| (1,1517) | 1:A:6:GLN:H     | 1:A:19:CYS:H    | 20                  | 7.05     | 0.22                | 7.01       |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H    | 20                  | 7.05     | 0.12                | 7.01       |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 20                  | 7.05     | 0.04                | 7.04       |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 20                  | 7.05     | 2.33                | 6.96       |
| (1,1983) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HH2  | 20                  | 7.05     | 0.06                | 7.05       |
| (1,1983) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HH2  | 20                  | 7.05     | 0.06                | 7.05       |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2  | 20                  | 7.04     | 1.14                | 7.14       |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 20                  | 7.04     | 0.1                 | 7.04       |
| (1,2091) | 1:A:8:GLY:HA2   | 1:A:26:CYS:HB2  | 20                  | 7.04     | 0.36                | 7.14       |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2  | 20                  | 7.04     | 0.86                | 7.52       |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3  | 20                  | 7.04     | 0.86                | 7.52       |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 20                  | 7.03     | 0.08                | 7.02       |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 20                  | 7.03     | 1.19                | 7.58       |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 20                  | 7.03     | 0.09                | 7.02       |
| (1,1542) | 1:A:6:GLN:H     | 1:A:32:TYR:HE1  | 20                  | 7.02     | 0.43                | 6.86       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 20                  | 7.02     | 0.43                | 6.86       |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 20                  | 7.02     | 0.14                | 7.0        |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1  | 20                  | 7.02     | 2.15                | 7.15       |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 20                  | 7.02     | 0.18                | 7.0        |
| (1,4096) | 1:A:21:SER:HG  | 1:A:34:ALA:H    | 20                  | 7.01     | 0.13                | 7.05       |
| (1,4206) | 1:A:22:GLN:HG2 | 1:A:34:ALA:H    | 20                  | 7.01     | 1.18                | 7.32       |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 20                  | 7.01     | 0.06                | 7.01       |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD1  | 20                  | 7.01     | 0.29                | 7.08       |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD2  | 20                  | 7.01     | 0.29                | 7.08       |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 20                  | 7.01     | 0.12                | 7.0        |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1  | 20                  | 7.0      | 0.56                | 6.96       |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2  | 20                  | 7.0      | 0.56                | 6.96       |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3  | 20                  | 7.0      | 0.56                | 6.96       |
| (1,3711) | 1:A:18:LEU:HB3 | 1:A:24:GLY:H    | 20                  | 7.0      | 0.06                | 7.01       |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 20                  | 7.0      | 0.88                | 6.6        |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 20                  | 7.0      | 3.68                | 5.31       |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 20                  | 6.99     | 0.14                | 7.02       |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 20                  | 6.99     | 0.14                | 7.02       |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 20                  | 6.99     | 0.98                | 7.28       |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 20                  | 6.99     | 0.98                | 7.28       |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 20                  | 6.99     | 0.98                | 7.28       |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 20                  | 6.99     | 0.12                | 6.98       |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 20                  | 6.99     | 0.12                | 6.98       |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H    | 20                  | 6.99     | 0.08                | 6.98       |
| (1,3908) | 1:A:19:CYS:HB3 | 1:A:35:HIS:HE1  | 20                  | 6.99     | 1.75                | 7.3        |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H    | 20                  | 6.98     | 0.43                | 6.98       |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 20                  | 6.98     | 0.07                | 7.0        |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 20                  | 6.98     | 0.07                | 7.0        |
| (1,4080) | 1:A:21:SER:HG  | 1:A:29:GLY:HA3  | 20                  | 6.98     | 0.05                | 6.98       |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 20                  | 6.97     | 0.41                | 7.0        |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 20                  | 6.97     | 0.41                | 7.0        |
| (1,3889) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HE21 | 20                  | 6.97     | 0.9                 | 7.08       |
| (1,3889) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HE22 | 20                  | 6.97     | 0.9                 | 7.08       |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H    | 20                  | 6.96     | 0.06                | 6.96       |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2  | 20                  | 6.96     | 4.58                | 5.08       |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 20                  | 6.96     | 0.19                | 6.96       |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 20                  | 6.96     | 0.58                | 7.08       |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 20                  | 6.96     | 0.58                | 7.08       |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 20                  | 6.96     | 0.21                | 7.02       |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 20                  | 6.96     | 0.21                | 7.02       |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 20                  | 6.96     | 0.21                | 7.02       |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 20                  | 6.96     | 0.21                | 7.02       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3  | 20                  | 6.96     | 1.14                | 7.28       |
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD11 | 20                  | 6.96     | 0.26                | 6.88       |
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD12 | 20                  | 6.96     | 0.26                | 6.88       |
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD13 | 20                  | 6.96     | 0.26                | 6.88       |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 20                  | 6.96     | 0.46                | 7.01       |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 20                  | 6.95     | 2.07                | 7.08       |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2  | 20                  | 6.95     | 0.14                | 6.92       |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3  | 20                  | 6.95     | 0.14                | 6.92       |
| (1,2061) | 1:A:8:GLY:H     | 1:A:27:GLY:H    | 20                  | 6.94     | 0.12                | 6.96       |
| (1,1565) | 1:A:6:GLN:HA    | 1:A:22:GLN:HB2  | 20                  | 6.94     | 0.14                | 6.92       |
| (1,1565) | 1:A:6:GLN:HA    | 1:A:22:GLN:HB3  | 20                  | 6.94     | 0.14                | 6.92       |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 20                  | 6.94     | 0.16                | 6.95       |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 20                  | 6.94     | 0.16                | 6.95       |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 20                  | 6.94     | 0.16                | 6.95       |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB2  | 20                  | 6.94     | 0.16                | 7.0        |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB3  | 20                  | 6.94     | 0.16                | 7.0        |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H    | 20                  | 6.94     | 0.13                | 6.96       |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 20                  | 6.94     | 1.96                | 6.6        |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2  | 20                  | 6.93     | 0.16                | 6.94       |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3  | 20                  | 6.93     | 0.16                | 6.94       |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2  | 20                  | 6.93     | 0.08                | 6.9        |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3  | 20                  | 6.93     | 0.08                | 6.9        |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG2  | 20                  | 6.93     | 1.22                | 6.92       |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG3  | 20                  | 6.93     | 1.22                | 6.92       |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H    | 20                  | 6.93     | 0.39                | 6.79       |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 20                  | 6.92     | 0.07                | 6.9        |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 20                  | 6.92     | 0.33                | 6.81       |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2  | 20                  | 6.92     | 0.11                | 6.96       |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3  | 20                  | 6.92     | 0.11                | 6.96       |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 20                  | 6.92     | 1.28                | 7.2        |
| (1,2105) | 1:A:8:GLY:HA3   | 1:A:11:TRP:HH2  | 20                  | 6.92     | 0.04                | 6.9        |
| (1,1005) | 1:A:3:PRO:HD3   | 1:A:12:GLY:H    | 20                  | 6.92     | 0.08                | 6.9        |
| (1,1190) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HD1  | 20                  | 6.91     | 0.32                | 6.93       |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2   | 20                  | 6.9      | 0.09                | 6.88       |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3   | 20                  | 6.9      | 0.09                | 6.88       |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2  | 20                  | 6.9      | 0.1                 | 6.9        |
| (1,1031) | 1:A:3:PRO:HD3   | 1:A:26:CYS:H    | 20                  | 6.9      | 0.12                | 6.88       |
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H    | 20                  | 6.9      | 0.2                 | 6.89       |
| (1,2997) | 1:A:12:GLY:H    | 1:A:20:CYS:H    | 20                  | 6.89     | 0.09                | 6.92       |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2  | 20                  | 6.89     | 0.11                | 6.88       |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3  | 20                  | 6.89     | 0.11                | 6.88       |
| (1,1999) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HB3  | 20                  | 6.89     | 0.22                | 6.89       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1999) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HB3  | 20                  | 6.89     | 0.22                | 6.89       |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2  | 20                  | 6.89     | 0.07                | 6.89       |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3  | 20                  | 6.89     | 0.07                | 6.89       |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2  | 20                  | 6.88     | 0.12                | 6.87       |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3  | 20                  | 6.88     | 0.12                | 6.87       |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 20                  | 6.88     | 0.06                | 6.88       |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 20                  | 6.88     | 0.06                | 6.88       |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 20                  | 6.87     | 0.93                | 6.99       |
| (1,1225) | 1:A:4:ASN:HB3   | 1:A:27:GLY:H    | 20                  | 6.87     | 0.27                | 6.9        |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H    | 20                  | 6.86     | 1.29                | 7.17       |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 20                  | 6.86     | 2.61                | 6.1        |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 20                  | 6.85     | 0.84                | 7.14       |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2  | 20                  | 6.85     | 0.22                | 6.76       |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3  | 20                  | 6.85     | 0.22                | 6.76       |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2  | 20                  | 6.85     | 0.13                | 6.8        |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3  | 20                  | 6.85     | 0.13                | 6.8        |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3  | 20                  | 6.85     | 0.23                | 6.72       |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 20                  | 6.84     | 0.54                | 7.01       |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 20                  | 6.83     | 1.21                | 6.64       |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 20                  | 6.83     | 0.52                | 7.13       |
| (1,1802) | 1:A:6:GLN:HE21  | 1:A:12:GLY:HA2  | 20                  | 6.83     | 0.21                | 6.84       |
| (1,1802) | 1:A:6:GLN:HE21  | 1:A:12:GLY:HA3  | 20                  | 6.83     | 0.21                | 6.84       |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 20                  | 6.83     | 0.27                | 6.88       |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 20                  | 6.83     | 0.27                | 6.88       |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA   | 20                  | 6.83     | 0.05                | 6.82       |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1  | 20                  | 6.82     | 0.14                | 6.8        |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2  | 20                  | 6.82     | 0.14                | 6.8        |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1  | 20                  | 6.82     | 0.34                | 6.76       |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2  | 20                  | 6.82     | 0.34                | 6.76       |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1  | 20                  | 6.82     | 0.34                | 6.76       |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2  | 20                  | 6.82     | 0.34                | 6.76       |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1  | 20                  | 6.81     | 0.05                | 6.8        |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2  | 20                  | 6.81     | 0.05                | 6.8        |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 20                  | 6.81     | 0.31                | 6.62       |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2  | 20                  | 6.8      | 0.1                 | 6.82       |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2  | 20                  | 6.8      | 1.29                | 7.08       |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3  | 20                  | 6.8      | 1.29                | 7.08       |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2  | 20                  | 6.8      | 1.29                | 7.08       |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3  | 20                  | 6.8      | 1.29                | 7.08       |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 20                  | 6.8      | 0.25                | 6.74       |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 20                  | 6.8      | 0.25                | 6.74       |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 20                  | 6.8      | 0.25                | 6.74       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H    | 20                  | 6.8      | 0.59                | 6.61       |
| (1,1457) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE1  | 20                  | 6.8      | 0.13                | 6.74       |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 20                  | 6.8      | 0.15                | 6.86       |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 20                  | 6.8      | 0.15                | 6.86       |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 20                  | 6.8      | 0.15                | 6.86       |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3  | 20                  | 6.8      | 0.13                | 6.82       |
| (1,1191) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HE1  | 20                  | 6.79     | 0.32                | 6.85       |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 20                  | 6.79     | 1.13                | 7.58       |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H    | 20                  | 6.79     | 0.29                | 6.88       |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H    | 20                  | 6.79     | 0.29                | 6.88       |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2  | 20                  | 6.78     | 1.1                 | 6.12       |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3  | 20                  | 6.78     | 1.1                 | 6.12       |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2  | 20                  | 6.78     | 0.06                | 6.78       |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3  | 20                  | 6.78     | 0.06                | 6.78       |
| (1,1533) | 1:A:6:GLN:H     | 1:A:27:GLY:HA3  | 20                  | 6.78     | 0.06                | 6.78       |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE   | 20                  | 6.77     | 1.5                 | 6.99       |
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE   | 20                  | 6.77     | 1.5                 | 6.99       |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1  | 20                  | 6.76     | 0.8                 | 7.32       |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2  | 20                  | 6.76     | 0.8                 | 7.32       |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3  | 20                  | 6.76     | 0.8                 | 7.32       |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H    | 20                  | 6.76     | 0.17                | 6.73       |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA   | 20                  | 6.76     | 0.08                | 6.76       |
| (1,2221) | 1:A:9:PRO:HB2   | 1:A:24:GLY:HA2  | 20                  | 6.76     | 0.27                | 6.82       |
| (1,1472) | 1:A:5:GLY:HA3   | 1:A:12:GLY:H    | 20                  | 6.76     | 0.13                | 6.7        |
| (1,1864) | 1:A:6:GLN:HE22  | 1:A:8:GLY:HA2   | 20                  | 6.75     | 0.11                | 6.7        |
| (1,1864) | 1:A:6:GLN:HE22  | 1:A:8:GLY:HA3   | 20                  | 6.75     | 0.11                | 6.7        |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 20                  | 6.75     | 0.54                | 6.7        |
| (1,1704) | 1:A:6:GLN:HG2   | 1:A:12:GLY:HA3  | 20                  | 6.75     | 0.09                | 6.78       |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2  | 20                  | 6.75     | 0.69                | 6.98       |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3  | 20                  | 6.75     | 0.69                | 6.98       |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H    | 20                  | 6.75     | 0.1                 | 6.75       |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H    | 20                  | 6.75     | 0.1                 | 6.75       |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H    | 20                  | 6.75     | 0.1                 | 6.75       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD11 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD12 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD13 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD21 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD22 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD23 | 20                  | 6.74     | 0.27                | 6.74       |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3  | 20                  | 6.74     | 0.09                | 6.74       |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 20                  | 6.74     | 0.05                | 6.74       |
| (1,2304) | 1:A:9:PRO:HG2   | 1:A:13:GLY:HA2  | 20                  | 6.74     | 0.19                | 6.67       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H    | 20                  | 6.74     | 2.1                 | 5.61       |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 20                  | 6.74     | 0.4                 | 6.53       |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 20                  | 6.74     | 0.4                 | 6.53       |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD1  | 20                  | 6.73     | 0.2                 | 6.78       |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD2  | 20                  | 6.73     | 0.2                 | 6.78       |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2  | 20                  | 6.73     | 2.64                | 7.36       |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 20                  | 6.73     | 0.67                | 6.96       |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 20                  | 6.73     | 0.67                | 6.96       |
| (1,4270) | 1:A:22:GLN:HG3 | 1:A:35:HIS:H    | 20                  | 6.72     | 2.66                | 6.38       |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 20                  | 6.72     | 0.06                | 6.74       |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2  | 20                  | 6.72     | 1.07                | 6.08       |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3  | 20                  | 6.72     | 1.07                | 6.08       |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3  | 20                  | 6.72     | 0.03                | 6.72       |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 20                  | 6.72     | 0.15                | 6.74       |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 20                  | 6.72     | 0.3                 | 6.66       |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2  | 20                  | 6.71     | 1.42                | 6.71       |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB2  | 20                  | 6.71     | 0.2                 | 6.59       |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB3  | 20                  | 6.71     | 0.2                 | 6.59       |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE1  | 20                  | 6.7      | 0.11                | 6.71       |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE2  | 20                  | 6.7      | 0.11                | 6.71       |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2  | 20                  | 6.69     | 0.18                | 6.72       |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3  | 20                  | 6.69     | 0.18                | 6.72       |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG   | 20                  | 6.69     | 0.16                | 6.74       |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 20                  | 6.69     | 0.06                | 6.68       |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 20                  | 6.69     | 0.15                | 6.7        |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 20                  | 6.69     | 0.15                | 6.7        |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H    | 20                  | 6.68     | 0.49                | 6.43       |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H    | 20                  | 6.68     | 0.2                 | 6.71       |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H    | 20                  | 6.68     | 0.2                 | 6.71       |
| (1,3747) | 1:A:18:LEU:HG  | 1:A:29:GLY:HA3  | 20                  | 6.68     | 0.18                | 6.68       |
| (1,3755) | 1:A:18:LEU:HG  | 1:A:33:CYS:H    | 20                  | 6.68     | 0.13                | 6.7        |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 20                  | 6.67     | 0.1                 | 6.65       |
| (1,4241) | 1:A:22:GLN:HB3 | 1:A:34:ALA:H    | 20                  | 6.67     | 0.63                | 6.82       |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 20                  | 6.67     | 0.16                | 6.63       |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 20                  | 6.67     | 0.16                | 6.63       |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 20                  | 6.67     | 0.29                | 6.64       |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 20                  | 6.67     | 0.29                | 6.64       |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 20                  | 6.67     | 0.29                | 6.64       |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 20                  | 6.67     | 0.19                | 6.62       |
| (1,3545) | 1:A:16:GLY:HA3 | 1:A:33:CYS:HB3  | 20                  | 6.67     | 1.5                 | 6.62       |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 20                  | 6.66     | 0.33                | 6.6        |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H    | 20                  | 6.66     | 0.98                | 6.68       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 20                  | 6.66     | 0.3                 | 6.52       |
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3 | 20                  | 6.65     | 0.24                | 6.56       |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3 | 20                  | 6.65     | 0.2                 | 6.64       |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 20                  | 6.65     | 1.19                | 7.06       |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 20                  | 6.65     | 1.19                | 7.06       |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 20                  | 6.65     | 1.19                | 7.06       |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 20                  | 6.65     | 0.17                | 6.66       |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 20                  | 6.65     | 0.69                | 6.88       |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 20                  | 6.65     | 0.23                | 6.68       |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 20                  | 6.65     | 0.23                | 6.68       |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 20                  | 6.65     | 0.09                | 6.62       |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 20                  | 6.65     | 0.05                | 6.66       |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 20                  | 6.65     | 0.05                | 6.66       |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 20                  | 6.64     | 0.07                | 6.64       |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 20                  | 6.64     | 0.04                | 6.66       |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 20                  | 6.63     | 3.6                 | 6.06       |
| (1,1770) | 1:A:6:GLN:HG3   | 1:A:27:GLY:H   | 20                  | 6.63     | 0.17                | 6.52       |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 20                  | 6.63     | 0.08                | 6.64       |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 20                  | 6.63     | 0.08                | 6.64       |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 20                  | 6.62     | 0.08                | 6.66       |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 20                  | 6.62     | 0.15                | 6.64       |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 20                  | 6.62     | 0.15                | 6.64       |
| (1,1941) | 1:A:7:CYS:H     | 1:A:19:CYS:HB3 | 20                  | 6.62     | 0.18                | 6.55       |
| (1,1461) | 1:A:5:GLY:HA2   | 1:A:28:SER:H   | 20                  | 6.62     | 0.08                | 6.62       |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA2 | 20                  | 6.61     | 0.47                | 6.74       |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA3 | 20                  | 6.61     | 0.47                | 6.74       |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 20                  | 6.6      | 0.79                | 6.21       |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 20                  | 6.6      | 0.79                | 6.21       |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 20                  | 6.59     | 0.38                | 6.37       |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 20                  | 6.59     | 0.08                | 6.6        |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 20                  | 6.59     | 0.83                | 6.32       |
| (1,3040) | 1:A:12:GLY:HA2  | 1:A:20:CYS:H   | 20                  | 6.58     | 0.14                | 6.59       |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 20                  | 6.58     | 0.78                | 6.93       |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 20                  | 6.58     | 0.78                | 6.93       |
| (1,1563) | 1:A:6:GLN:HA    | 1:A:22:GLN:H   | 20                  | 6.58     | 0.11                | 6.56       |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 20                  | 6.57     | 0.08                | 6.58       |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 20                  | 6.57     | 0.44                | 6.73       |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2 | 20                  | 6.57     | 0.24                | 6.52       |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3 | 20                  | 6.57     | 0.24                | 6.52       |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 20                  | 6.56     | 0.68                | 6.74       |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 20                  | 6.56     | 0.68                | 6.74       |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 20                  | 6.56     | 0.68                | 6.74       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 20                  | 6.56     | 0.22                | 6.61       |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 20                  | 6.56     | 0.01                | 6.56       |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 20                  | 6.56     | 0.01                | 6.56       |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H   | 20                  | 6.56     | 1.08                | 6.62       |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H   | 20                  | 6.56     | 1.08                | 6.62       |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 20                  | 6.55     | 0.3                 | 6.45       |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H   | 20                  | 6.55     | 0.13                | 6.56       |
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA2 | 20                  | 6.54     | 0.32                | 6.33       |
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA3 | 20                  | 6.54     | 0.32                | 6.33       |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1 | 20                  | 6.54     | 0.07                | 6.56       |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2 | 20                  | 6.54     | 0.07                | 6.56       |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H   | 20                  | 6.54     | 0.25                | 6.56       |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2 | 20                  | 6.54     | 0.14                | 6.52       |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD1 | 20                  | 6.54     | 0.15                | 6.57       |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD2 | 20                  | 6.54     | 0.15                | 6.57       |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2 | 20                  | 6.54     | 1.17                | 7.09       |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3 | 20                  | 6.54     | 1.17                | 7.09       |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 20                  | 6.54     | 0.23                | 6.58       |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H   | 20                  | 6.54     | 0.07                | 6.52       |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 20                  | 6.54     | 0.04                | 6.52       |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 20                  | 6.54     | 0.04                | 6.52       |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 20                  | 6.53     | 0.08                | 6.52       |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 20                  | 6.53     | 0.08                | 6.52       |
| (1,4086) | 1:A:21:SER:HG  | 1:A:31:LYS:HB2 | 20                  | 6.53     | 0.55                | 6.85       |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 20                  | 6.53     | 0.05                | 6.54       |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 20                  | 6.53     | 0.05                | 6.54       |
| (1,4238) | 1:A:22:GLN:HB3 | 1:A:33:CYS:H   | 20                  | 6.53     | 0.53                | 6.58       |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2  | 20                  | 6.53     | 0.32                | 6.52       |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2  | 20                  | 6.53     | 0.32                | 6.52       |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3  | 20                  | 6.53     | 0.32                | 6.52       |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3  | 20                  | 6.53     | 0.32                | 6.52       |
| (1,4028) | 1:A:21:SER:H   | 1:A:29:GLY:H   | 20                  | 6.52     | 0.12                | 6.59       |
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3 | 20                  | 6.52     | 0.13                | 6.55       |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 20                  | 6.52     | 0.34                | 6.54       |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 20                  | 6.52     | 0.34                | 6.54       |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H   | 20                  | 6.52     | 0.18                | 6.56       |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 20                  | 6.51     | 0.06                | 6.52       |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 20                  | 6.51     | 0.72                | 6.22       |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 20                  | 6.51     | 0.24                | 6.52       |
| (1,4144) | 1:A:22:GLN:HA  | 1:A:27:GLY:HA3 | 20                  | 6.5      | 0.11                | 6.48       |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H   | 20                  | 6.5      | 0.08                | 6.5        |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H   | 20                  | 6.5      | 0.11                | 6.52       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2  | 20                  | 6.5      | 0.11                | 6.48       |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3  | 20                  | 6.5      | 0.11                | 6.48       |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 20                  | 6.5      | 0.37                | 6.36       |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 20                  | 6.49     | 1.08                | 6.0        |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 20                  | 6.49     | 1.08                | 6.0        |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 20                  | 6.49     | 1.08                | 6.0        |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 20                  | 6.49     | 1.08                | 6.0        |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA  | 20                  | 6.49     | 0.1                 | 6.48       |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 20                  | 6.49     | 0.07                | 6.52       |
| (1,1089) | 1:A:4:ASN:H     | 1:A:25:TYR:H   | 20                  | 6.49     | 0.23                | 6.46       |
| (1,1654) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HD1 | 20                  | 6.49     | 0.12                | 6.49       |
| (1,1654) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HD2 | 20                  | 6.49     | 0.12                | 6.49       |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 20                  | 6.49     | 1.29                | 6.4        |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 20                  | 6.48     | 0.13                | 6.43       |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 20                  | 6.48     | 0.15                | 6.54       |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 20                  | 6.48     | 0.15                | 6.54       |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 20                  | 6.48     | 0.15                | 6.54       |
| (1,1987) | 1:A:7:CYS:HB2   | 1:A:16:GLY:H   | 20                  | 6.48     | 0.25                | 6.55       |
| (1,1987) | 1:A:7:CYS:HB3   | 1:A:16:GLY:H   | 20                  | 6.48     | 0.25                | 6.55       |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 20                  | 6.48     | 0.52                | 6.3        |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3 | 20                  | 6.48     | 0.52                | 6.3        |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H   | 20                  | 6.48     | 0.08                | 6.48       |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 20                  | 6.48     | 0.87                | 6.83       |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 20                  | 6.48     | 0.87                | 6.83       |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 20                  | 6.48     | 0.98                | 6.37       |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 20                  | 6.48     | 0.98                | 6.37       |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 20                  | 6.47     | 1.87                | 6.42       |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 20                  | 6.47     | 1.87                | 6.42       |
| (1,2803) | 1:A:11:TRP:HE3  | 1:A:26:CYS:H   | 20                  | 6.47     | 0.17                | 6.36       |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 20                  | 6.47     | 0.79                | 6.18       |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 20                  | 6.47     | 0.79                | 6.18       |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 20                  | 6.47     | 0.12                | 6.44       |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3 | 20                  | 6.47     | 0.2                 | 6.44       |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3 | 20                  | 6.47     | 0.2                 | 6.44       |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 20                  | 6.47     | 0.1                 | 6.41       |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 20                  | 6.46     | 0.57                | 6.39       |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 20                  | 6.46     | 0.57                | 6.39       |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2 | 20                  | 6.46     | 0.31                | 6.48       |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2 | 20                  | 6.45     | 0.49                | 6.47       |
| (1,2195) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE3 | 20                  | 6.45     | 0.04                | 6.45       |
| (1,1592) | 1:A:6:GLN:HB2   | 1:A:14:CYS:H   | 20                  | 6.45     | 0.07                | 6.46       |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 20                  | 6.45     | 0.29                | 6.48       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2   | 20                  | 6.45     | 0.29                | 6.48       |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3   | 20                  | 6.45     | 0.29                | 6.48       |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3   | 20                  | 6.45     | 0.29                | 6.48       |
| (1,2444) | 1:A:9:PRO:HD2   | 1:A:26:CYS:H    | 20                  | 6.45     | 0.16                | 6.44       |
| (1,2444) | 1:A:9:PRO:HD3   | 1:A:26:CYS:H    | 20                  | 6.45     | 0.16                | 6.44       |
| (1,720)  | 1:A:2:GLY:HA3   | 1:A:13:GLY:H    | 20                  | 6.45     | 0.1                 | 6.46       |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H    | 20                  | 6.44     | 1.2                 | 6.98       |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG2  | 20                  | 6.44     | 1.38                | 6.2        |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG3  | 20                  | 6.44     | 1.38                | 6.2        |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 20                  | 6.44     | 0.3                 | 6.58       |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 20                  | 6.44     | 0.08                | 6.46       |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H    | 20                  | 6.42     | 0.39                | 6.62       |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3  | 20                  | 6.42     | 0.03                | 6.41       |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3  | 20                  | 6.42     | 0.03                | 6.41       |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H    | 20                  | 6.41     | 0.23                | 6.42       |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 20                  | 6.41     | 0.16                | 6.43       |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 20                  | 6.41     | 0.25                | 6.28       |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2  | 20                  | 6.4      | 0.05                | 6.39       |
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA    | 20                  | 6.39     | 0.07                | 6.42       |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H    | 20                  | 6.39     | 0.1                 | 6.36       |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA   | 20                  | 6.39     | 0.19                | 6.38       |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 20                  | 6.38     | 1.15                | 6.53       |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 20                  | 6.38     | 1.15                | 6.53       |
| (1,1713) | 1:A:6:GLN:HG2   | 1:A:21:SER:H    | 20                  | 6.38     | 0.12                | 6.34       |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 20                  | 6.37     | 0.75                | 6.45       |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 20                  | 6.37     | 0.75                | 6.45       |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H    | 20                  | 6.37     | 0.05                | 6.36       |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H    | 20                  | 6.37     | 0.57                | 6.54       |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 20                  | 6.37     | 1.11                | 6.9        |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 20                  | 6.37     | 1.11                | 6.9        |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA   | 20                  | 6.36     | 0.1                 | 6.36       |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2  | 20                  | 6.36     | 0.06                | 6.37       |
| (1,1596) | 1:A:6:GLN:HB2   | 1:A:20:CYS:HB2  | 20                  | 6.36     | 0.1                 | 6.36       |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 20                  | 6.36     | 0.14                | 6.39       |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2  | 20                  | 6.35     | 1.03                | 5.73       |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3  | 20                  | 6.35     | 1.03                | 5.73       |
| (1,1652) | 1:A:6:GLN:HB3   | 1:A:23:TYR:H    | 20                  | 6.35     | 0.07                | 6.35       |
| (1,1526) | 1:A:6:GLN:H     | 1:A:23:TYR:HB3  | 20                  | 6.35     | 0.24                | 6.32       |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 20                  | 6.35     | 0.37                | 6.43       |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 20                  | 6.35     | 0.16                | 6.32       |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 20                  | 6.35     | 0.16                | 6.32       |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 20                  | 6.35     | 0.16                | 6.32       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 20                  | 6.35     | 0.16                | 6.32       |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 20                  | 6.35     | 0.16                | 6.32       |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 20                  | 6.35     | 0.16                | 6.32       |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 20                  | 6.34     | 0.14                | 6.34       |
| (1,3276) | 1:A:15:ARG:H   | 1:A:32:TYR:HB3  | 20                  | 6.34     | 0.84                | 5.79       |
| (1,3979) | 1:A:20:CYS:HB2 | 1:A:35:HIS:H    | 20                  | 6.34     | 1.57                | 5.54       |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 20                  | 6.34     | 0.1                 | 6.37       |
| (1,4262) | 1:A:22:GLN:HG3 | 1:A:32:TYR:H    | 20                  | 6.34     | 1.3                 | 6.64       |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2  | 20                  | 6.33     | 0.53                | 6.66       |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB2  | 20                  | 6.33     | 0.07                | 6.33       |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB3  | 20                  | 6.33     | 0.07                | 6.33       |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 20                  | 6.33     | 0.17                | 6.31       |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 20                  | 6.33     | 0.17                | 6.31       |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 20                  | 6.33     | 0.22                | 6.38       |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H     | 20                  | 6.32     | 0.08                | 6.36       |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 20                  | 6.32     | 0.17                | 6.28       |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 20                  | 6.31     | 0.25                | 6.26       |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 20                  | 6.31     | 0.25                | 6.26       |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 20                  | 6.31     | 0.1                 | 6.26       |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 20                  | 6.31     | 0.25                | 6.25       |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 20                  | 6.31     | 0.25                | 6.25       |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA   | 20                  | 6.31     | 0.16                | 6.34       |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 20                  | 6.31     | 0.01                | 6.3        |
| (1,4078) | 1:A:21:SER:HG  | 1:A:28:SER:HB2  | 20                  | 6.3      | 0.05                | 6.28       |
| (1,4078) | 1:A:21:SER:HG  | 1:A:28:SER:HB3  | 20                  | 6.3      | 0.05                | 6.28       |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 20                  | 6.29     | 0.09                | 6.26       |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 20                  | 6.29     | 0.12                | 6.24       |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 20                  | 6.29     | 0.12                | 6.24       |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 20                  | 6.29     | 0.12                | 6.24       |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 20                  | 6.29     | 0.01                | 6.28       |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 20                  | 6.28     | 0.07                | 6.3        |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 20                  | 6.28     | 0.07                | 6.3        |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 20                  | 6.28     | 0.19                | 6.31       |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 20                  | 6.28     | 0.34                | 6.32       |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 20                  | 6.28     | 0.43                | 6.08       |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 20                  | 6.28     | 0.43                | 6.08       |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA   | 20                  | 6.28     | 0.04                | 6.26       |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 20                  | 6.27     | 0.12                | 6.33       |
| (1,4033) | 1:A:21:SER:H   | 1:A:31:LYS:HA   | 20                  | 6.26     | 0.09                | 6.24       |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 20                  | 6.26     | 0.03                | 6.26       |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 20                  | 6.26     | 0.03                | 6.26       |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 20                  | 6.26     | 0.47                | 6.52       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 20                  | 6.26     | 1.17                | 6.93       |
| (1,1950) | 1:A:7:CYS:H     | 1:A:22:GLN:HB2 | 20                  | 6.25     | 0.08                | 6.22       |
| (1,1950) | 1:A:7:CYS:H     | 1:A:22:GLN:HB3 | 20                  | 6.25     | 0.08                | 6.22       |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 20                  | 6.25     | 0.8                 | 6.54       |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 20                  | 6.25     | 0.61                | 6.17       |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 20                  | 6.24     | 0.36                | 6.36       |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 20                  | 6.24     | 0.36                | 6.36       |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 20                  | 6.24     | 0.15                | 6.28       |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 20                  | 6.24     | 0.15                | 6.28       |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 20                  | 6.24     | 0.15                | 6.28       |
| (1,1412) | 1:A:5:GLY:H     | 1:A:14:CYS:HB2 | 20                  | 6.24     | 0.4                 | 6.47       |
| (1,2027) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ3 | 20                  | 6.24     | 0.01                | 6.24       |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 20                  | 6.24     | 0.14                | 6.24       |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA  | 20                  | 6.23     | 0.14                | 6.15       |
| (1,931)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:H   | 20                  | 6.23     | 0.15                | 6.22       |
| (1,931)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:H   | 20                  | 6.23     | 0.15                | 6.22       |
| (1,1407) | 1:A:5:GLY:H     | 1:A:11:TRP:HE1 | 20                  | 6.23     | 0.11                | 6.18       |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 20                  | 6.23     | 0.09                | 6.26       |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB2 | 20                  | 6.22     | 0.54                | 6.51       |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB3 | 20                  | 6.22     | 0.54                | 6.51       |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 20                  | 6.22     | 0.71                | 5.74       |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 20                  | 6.21     | 0.17                | 6.23       |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 20                  | 6.21     | 0.17                | 6.23       |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 20                  | 6.21     | 0.06                | 6.2        |
| (1,1410) | 1:A:5:GLY:H     | 1:A:12:GLY:HA3 | 20                  | 6.19     | 0.15                | 6.12       |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H   | 20                  | 6.19     | 0.46                | 6.23       |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 20                  | 6.19     | 1.57                | 5.12       |
| (1,1797) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HD2  | 20                  | 6.19     | 0.12                | 6.12       |
| (1,1797) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HD3  | 20                  | 6.19     | 0.12                | 6.12       |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2 | 20                  | 6.19     | 0.18                | 6.16       |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 20                  | 6.19     | 0.18                | 6.16       |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H   | 20                  | 6.18     | 0.7                 | 5.9        |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H   | 20                  | 6.18     | 0.7                 | 5.9        |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 20                  | 6.18     | 0.07                | 6.2        |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 20                  | 6.18     | 0.07                | 6.2        |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA   | 20                  | 6.17     | 0.11                | 6.14       |
| (1,1741) | 1:A:6:GLN:HG3   | 1:A:10:GLY:HA2 | 20                  | 6.17     | 0.07                | 6.19       |
| (1,1741) | 1:A:6:GLN:HG3   | 1:A:10:GLY:HA3 | 20                  | 6.17     | 0.07                | 6.19       |
| (1,1587) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HG2  | 20                  | 6.17     | 0.15                | 6.08       |
| (1,1587) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HG3  | 20                  | 6.17     | 0.15                | 6.08       |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 20                  | 6.16     | 0.14                | 6.2        |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 20                  | 6.16     | 0.14                | 6.2        |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3  | 20                  | 6.16     | 0.14                | 6.2        |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3  | 20                  | 6.16     | 0.14                | 6.2        |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 20                  | 6.16     | 0.26                | 6.09       |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 20                  | 6.16     | 0.26                | 6.09       |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 20                  | 6.16     | 0.26                | 6.09       |
| (1,3397) | 1:A:15:ARG:HD2 | 1:A:20:CYS:H    | 20                  | 6.16     | 1.19                | 6.28       |
| (1,3397) | 1:A:15:ARG:HD3 | 1:A:20:CYS:H    | 20                  | 6.16     | 1.19                | 6.28       |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 20                  | 6.16     | 2.08                | 5.5        |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 20                  | 6.16     | 0.1                 | 6.17       |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 20                  | 6.16     | 0.1                 | 6.17       |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1  | 20                  | 6.15     | 0.57                | 6.37       |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2  | 20                  | 6.15     | 0.57                | 6.37       |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 20                  | 6.15     | 0.6                 | 6.47       |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 20                  | 6.15     | 0.17                | 6.1        |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 20                  | 6.15     | 0.17                | 6.1        |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 20                  | 6.15     | 0.12                | 6.14       |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 20                  | 6.15     | 0.12                | 6.14       |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 20                  | 6.15     | 0.19                | 6.14       |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 20                  | 6.15     | 0.3                 | 6.08       |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 20                  | 6.15     | 0.18                | 6.14       |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 20                  | 6.15     | 0.18                | 6.14       |
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 20                  | 6.14     | 0.27                | 6.3        |
| (1,3260) | 1:A:15:ARG:H   | 1:A:21:SER:H    | 20                  | 6.13     | 0.86                | 5.58       |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 20                  | 6.13     | 0.19                | 6.13       |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 20                  | 6.13     | 0.66                | 5.74       |
| (1,4089) | 1:A:21:SER:HG  | 1:A:31:LYS:HD2  | 20                  | 6.12     | 0.83                | 6.41       |
| (1,4089) | 1:A:21:SER:HG  | 1:A:31:LYS:HD3  | 20                  | 6.12     | 0.83                | 6.41       |
| (1,3510) | 1:A:16:GLY:HA2 | 1:A:27:GLY:H    | 20                  | 6.12     | 0.64                | 6.0        |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 20                  | 6.12     | 0.05                | 6.11       |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H    | 20                  | 6.12     | 0.63                | 5.84       |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 20                  | 6.12     | 0.06                | 6.1        |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 20                  | 6.12     | 0.14                | 6.12       |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 20                  | 6.12     | 0.14                | 6.12       |
| (1,3958) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HB2  | 20                  | 6.11     | 0.04                | 6.1        |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 20                  | 6.1      | 0.01                | 6.1        |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H    | 20                  | 6.1      | 0.03                | 6.1        |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 20                  | 6.1      | 0.16                | 6.14       |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3  | 20                  | 6.1      | 1.42                | 6.12       |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 20                  | 6.1      | 0.08                | 6.12       |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 20                  | 6.09     | 0.31                | 5.98       |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 20                  | 6.09     | 0.11                | 6.11       |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 20                  | 6.09     | 0.11                | 6.11       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1146) | 1:A:4:ASN:HB2   | 1:A:21:SER:HG   | 20                  | 6.09     | 0.37                | 6.15       |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H    | 20                  | 6.09     | 0.22                | 6.18       |
| (1,2435) | 1:A:9:PRO:HD2   | 1:A:20:CYS:H    | 20                  | 6.08     | 0.2                 | 6.14       |
| (1,2435) | 1:A:9:PRO:HD3   | 1:A:20:CYS:H    | 20                  | 6.08     | 0.2                 | 6.14       |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H    | 20                  | 6.08     | 0.17                | 6.1        |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1  | 20                  | 6.08     | 0.32                | 6.04       |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2  | 20                  | 6.08     | 0.32                | 6.04       |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 20                  | 6.07     | 0.02                | 6.08       |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 20                  | 6.07     | 0.09                | 6.07       |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 20                  | 6.07     | 0.09                | 6.07       |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 20                  | 6.07     | 0.09                | 6.07       |
| (1,2247) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HB3  | 20                  | 6.07     | 0.01                | 6.06       |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H    | 20                  | 6.06     | 0.4                 | 6.14       |
| (1,1597) | 1:A:6:GLN:HB2   | 1:A:21:SER:H    | 20                  | 6.06     | 0.05                | 6.05       |
| (1,2299) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HZ2  | 20                  | 6.06     | 0.05                | 6.05       |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE1  | 20                  | 6.06     | 0.33                | 5.88       |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE2  | 20                  | 6.06     | 0.33                | 5.88       |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H    | 20                  | 6.05     | 0.21                | 6.08       |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD11 | 20                  | 6.05     | 0.2                 | 5.96       |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD12 | 20                  | 6.05     | 0.2                 | 5.96       |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD13 | 20                  | 6.05     | 0.2                 | 5.96       |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 20                  | 6.05     | 0.17                | 6.02       |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2  | 20                  | 6.05     | 0.17                | 6.02       |
| (1,1426) | 1:A:5:GLY:H     | 1:A:21:SER:HG   | 20                  | 6.04     | 0.19                | 6.02       |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H    | 20                  | 6.04     | 2.18                | 5.32       |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3  | 20                  | 6.04     | 0.17                | 6.11       |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB2  | 20                  | 6.04     | 0.06                | 6.04       |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB3  | 20                  | 6.04     | 0.06                | 6.04       |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 20                  | 6.04     | 0.89                | 6.58       |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 20                  | 6.03     | 0.82                | 5.78       |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 20                  | 6.03     | 0.82                | 5.78       |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG   | 20                  | 6.03     | 0.29                | 6.02       |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG   | 20                  | 6.03     | 0.29                | 6.02       |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA   | 20                  | 6.03     | 0.08                | 6.06       |
| (1,1717) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HA   | 20                  | 6.02     | 0.21                | 6.0        |
| (1,2426) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HH2  | 20                  | 6.02     | 0.04                | 6.01       |
| (1,2426) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HH2  | 20                  | 6.02     | 0.04                | 6.01       |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3  | 20                  | 6.02     | 0.74                | 6.14       |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3  | 20                  | 6.02     | 0.74                | 6.14       |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 20                  | 6.01     | 2.39                | 6.55       |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 20                  | 6.01     | 0.13                | 6.03       |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 20                  | 6.01     | 0.13                | 6.03       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 20                  | 6.01     | 0.13                | 6.03       |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 20                  | 6.0      | 0.48                | 5.79       |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 20                  | 6.0      | 0.05                | 6.01       |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H    | 20                  | 6.0      | 0.79                | 5.56       |
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H    | 20                  | 5.99     | 0.13                | 5.98       |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2  | 20                  | 5.99     | 0.18                | 5.92       |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB3  | 20                  | 5.99     | 0.18                | 5.92       |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1  | 20                  | 5.99     | 0.19                | 5.99       |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2  | 20                  | 5.99     | 0.19                | 5.99       |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1  | 20                  | 5.98     | 0.42                | 5.8        |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2  | 20                  | 5.98     | 0.42                | 5.8        |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3  | 20                  | 5.98     | 0.42                | 5.8        |
| (1,2361) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HA   | 20                  | 5.98     | 0.01                | 5.98       |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 20                  | 5.98     | 0.15                | 6.07       |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 20                  | 5.98     | 0.19                | 6.04       |
| (1,1928) | 1:A:7:CYS:H     | 1:A:11:TRP:HH2  | 20                  | 5.98     | 0.13                | 6.0        |
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA    | 20                  | 5.98     | 0.04                | 5.99       |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2  | 20                  | 5.97     | 0.23                | 6.02       |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H    | 20                  | 5.97     | 0.09                | 6.0        |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2  | 20                  | 5.97     | 0.12                | 6.0        |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3  | 20                  | 5.97     | 0.12                | 6.0        |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 20                  | 5.97     | 0.06                | 5.96       |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 20                  | 5.97     | 0.13                | 5.97       |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1  | 20                  | 5.97     | 0.69                | 5.74       |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2  | 20                  | 5.97     | 0.69                | 5.74       |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 20                  | 5.97     | 0.08                | 5.96       |
| (1,2835) | 1:A:11:TRP:HE1  | 1:A:13:GLY:HA2  | 20                  | 5.96     | 0.05                | 5.98       |
| (1,2835) | 1:A:11:TRP:HE1  | 1:A:13:GLY:HA3  | 20                  | 5.96     | 0.05                | 5.98       |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD11 | 20                  | 5.96     | 0.15                | 5.94       |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD12 | 20                  | 5.96     | 0.15                | 5.94       |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD13 | 20                  | 5.96     | 0.15                | 5.94       |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1  | 20                  | 5.96     | 0.54                | 5.65       |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2  | 20                  | 5.96     | 0.54                | 5.65       |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 20                  | 5.96     | 1.16                | 6.32       |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 20                  | 5.96     | 1.16                | 6.32       |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA   | 20                  | 5.95     | 0.3                 | 5.94       |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 20                  | 5.95     | 0.3                 | 5.94       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 20                  | 5.94     | 0.3                 | 5.96       |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 20                  | 5.94     | 0.3                 | 5.96       |
| (1,1746) | 1:A:6:GLN:HG3   | 1:A:12:GLY:HA2 | 20                  | 5.94     | 0.05                | 5.94       |
| (1,1746) | 1:A:6:GLN:HG3   | 1:A:12:GLY:HA3 | 20                  | 5.94     | 0.05                | 5.94       |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 20                  | 5.94     | 0.76                | 5.4        |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 20                  | 5.94     | 0.12                | 5.99       |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 20                  | 5.94     | 0.12                | 5.99       |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 20                  | 5.93     | 0.29                | 5.96       |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 20                  | 5.93     | 0.29                | 5.96       |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 20                  | 5.93     | 0.17                | 5.96       |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 20                  | 5.92     | 0.1                 | 5.96       |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 20                  | 5.92     | 0.4                 | 6.01       |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 20                  | 5.92     | 0.4                 | 6.01       |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2 | 20                  | 5.92     | 1.32                | 5.82       |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3 | 20                  | 5.92     | 1.32                | 5.82       |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 20                  | 5.92     | 0.03                | 5.92       |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB2 | 20                  | 5.92     | 0.13                | 5.88       |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB3 | 20                  | 5.92     | 0.13                | 5.88       |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2 | 20                  | 5.92     | 0.07                | 5.94       |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3 | 20                  | 5.92     | 0.07                | 5.94       |
| (1,1002) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HD1 | 20                  | 5.91     | 0.09                | 5.88       |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 20                  | 5.91     | 0.31                | 5.9        |
| (1,647)  | 1:A:2:GLY:H     | 1:A:26:CYS:HA  | 20                  | 5.9      | 0.12                | 5.92       |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 20                  | 5.9      | 0.98                | 6.48       |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 20                  | 5.9      | 0.98                | 6.48       |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 20                  | 5.9      | 0.98                | 6.48       |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 20                  | 5.9      | 0.04                | 5.9        |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 20                  | 5.9      | 0.04                | 5.9        |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 20                  | 5.9      | 1.06                | 6.5        |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 20                  | 5.9      | 0.17                | 5.93       |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 20                  | 5.9      | 0.17                | 5.93       |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 20                  | 5.9      | 0.17                | 5.93       |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 20                  | 5.9      | 0.04                | 5.9        |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 20                  | 5.9      | 1.8                 | 5.64       |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 20                  | 5.89     | 0.49                | 5.74       |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 20                  | 5.88     | 1.76                | 5.56       |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1 | 20                  | 5.88     | 0.39                | 5.9        |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2 | 20                  | 5.88     | 0.39                | 5.9        |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H   | 20                  | 5.88     | 0.01                | 5.89       |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 20                  | 5.88     | 0.63                | 5.64       |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 20                  | 5.88     | 0.63                | 5.64       |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H   | 20                  | 5.88     | 0.83                | 5.32       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 20                  | 5.88     | 0.1                 | 5.82       |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 20                  | 5.88     | 0.07                | 5.88       |
| (1,1442) | 1:A:5:GLY:H     | 1:A:27:GLY:H   | 20                  | 5.88     | 0.15                | 5.84       |
| (1,1604) | 1:A:6:GLN:HB2   | 1:A:24:GLY:H   | 20                  | 5.88     | 0.08                | 5.86       |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 20                  | 5.88     | 0.92                | 6.32       |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 20                  | 5.88     | 0.92                | 6.32       |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 20                  | 5.87     | 0.04                | 5.86       |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 20                  | 5.87     | 0.04                | 5.86       |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3 | 20                  | 5.86     | 0.16                | 5.92       |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1 | 20                  | 5.86     | 0.28                | 5.94       |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2 | 20                  | 5.86     | 0.28                | 5.94       |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1 | 20                  | 5.86     | 0.28                | 5.94       |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2 | 20                  | 5.86     | 0.28                | 5.94       |
| (1,1127) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HD1 | 20                  | 5.86     | 0.17                | 5.86       |
| (1,1484) | 1:A:5:GLY:HA3   | 1:A:20:CYS:H   | 20                  | 5.86     | 0.25                | 5.89       |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 20                  | 5.85     | 0.14                | 5.82       |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 20                  | 5.85     | 0.08                | 5.83       |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H   | 20                  | 5.84     | 0.18                | 5.74       |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 20                  | 5.84     | 1.26                | 5.82       |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 20                  | 5.84     | 1.26                | 5.82       |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 20                  | 5.84     | 1.11                | 5.16       |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 20                  | 5.84     | 1.11                | 5.16       |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 20                  | 5.84     | 0.07                | 5.84       |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 20                  | 5.84     | 0.16                | 5.86       |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2 | 20                  | 5.84     | 0.21                | 5.88       |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 20                  | 5.84     | 0.19                | 5.92       |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 20                  | 5.83     | 1.6                 | 6.2        |
| (1,1061) | 1:A:4:ASN:H     | 1:A:11:TRP:HE1 | 20                  | 5.83     | 0.12                | 5.78       |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE1 | 20                  | 5.83     | 0.42                | 5.62       |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE2 | 20                  | 5.83     | 0.42                | 5.62       |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 20                  | 5.83     | 0.06                | 5.85       |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 20                  | 5.83     | 0.51                | 5.77       |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 20                  | 5.83     | 0.12                | 5.86       |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 20                  | 5.83     | 0.12                | 5.86       |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 20                  | 5.83     | 0.12                | 5.86       |
| (1,2014) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HA  | 20                  | 5.82     | 0.2                 | 5.83       |
| (1,2014) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HA  | 20                  | 5.82     | 0.2                 | 5.83       |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 20                  | 5.82     | 0.17                | 5.87       |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 20                  | 5.82     | 3.25                | 5.7        |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 20                  | 5.82     | 3.25                | 5.7        |
| (1,1630) | 1:A:6:GLN:HB3   | 1:A:13:GLY:H   | 20                  | 5.82     | 0.11                | 5.86       |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD1 | 20                  | 5.82     | 0.41                | 5.6        |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD2  | 20                  | 5.82     | 0.41                | 5.6        |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA   | 20                  | 5.82     | 0.09                | 5.86       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD11 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD12 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD13 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD21 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD22 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD23 | 20                  | 5.81     | 0.25                | 5.74       |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 20                  | 5.81     | 0.1                 | 5.8        |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H    | 20                  | 5.81     | 0.17                | 5.86       |
| (1,1513) | 1:A:6:GLN:H     | 1:A:13:GLY:H    | 20                  | 5.81     | 0.06                | 5.8        |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H     | 20                  | 5.81     | 0.49                | 6.16       |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 20                  | 5.81     | 3.43                | 5.54       |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 20                  | 5.81     | 3.43                | 5.54       |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB2  | 20                  | 5.81     | 0.3                 | 5.82       |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB3  | 20                  | 5.81     | 0.3                 | 5.82       |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA2   | 20                  | 5.81     | 0.11                | 5.76       |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA3   | 20                  | 5.81     | 0.11                | 5.76       |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2  | 20                  | 5.8      | 2.21                | 6.22       |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H    | 20                  | 5.8      | 0.25                | 5.7        |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA   | 20                  | 5.8      | 0.15                | 5.83       |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA   | 20                  | 5.8      | 0.15                | 5.83       |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA   | 20                  | 5.8      | 0.15                | 5.83       |
| (1,2462) | 1:A:10:GLY:H    | 1:A:11:TRP:HH2  | 20                  | 5.79     | 0.04                | 5.8        |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 20                  | 5.79     | 0.66                | 5.56       |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 20                  | 5.79     | 0.66                | 5.56       |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA   | 20                  | 5.78     | 0.51                | 5.74       |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA   | 20                  | 5.78     | 0.51                | 5.74       |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1  | 20                  | 5.78     | 0.1                 | 5.74       |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2  | 20                  | 5.78     | 0.02                | 5.78       |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3  | 20                  | 5.78     | 0.02                | 5.78       |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 20                  | 5.78     | 0.15                | 5.78       |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 20                  | 5.78     | 0.15                | 5.78       |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 20                  | 5.78     | 0.15                | 5.78       |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1  | 20                  | 5.78     | 0.27                | 5.76       |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2  | 20                  | 5.78     | 0.27                | 5.76       |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 20                  | 5.77     | 0.03                | 5.79       |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2  | 20                  | 5.76     | 0.14                | 5.78       |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3  | 20                  | 5.76     | 0.14                | 5.78       |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB2  | 20                  | 5.76     | 0.15                | 5.71       |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB3  | 20                  | 5.76     | 0.15                | 5.71       |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3  | 20                  | 5.76     | 0.08                | 5.74       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 20                  | 5.75     | 0.25                | 5.67       |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 20                  | 5.74     | 0.13                | 5.71       |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 20                  | 5.74     | 0.79                | 6.02       |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 20                  | 5.74     | 0.79                | 6.02       |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 20                  | 5.74     | 0.79                | 6.02       |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H   | 20                  | 5.74     | 0.04                | 5.75       |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H   | 20                  | 5.74     | 0.04                | 5.75       |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 20                  | 5.74     | 0.98                | 5.66       |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 20                  | 5.74     | 0.98                | 5.66       |
| (1,3947) | 1:A:20:CYS:H   | 1:A:35:HIS:HA  | 20                  | 5.74     | 1.52                | 5.87       |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1 | 20                  | 5.73     | 0.26                | 5.62       |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2 | 20                  | 5.73     | 0.26                | 5.62       |
| (1,3712) | 1:A:18:LEU:HB3 | 1:A:24:GLY:HA2 | 20                  | 5.73     | 0.06                | 5.73       |
| (1,3712) | 1:A:18:LEU:HB3 | 1:A:24:GLY:HA3 | 20                  | 5.73     | 0.06                | 5.73       |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 20                  | 5.73     | 0.3                 | 5.65       |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 20                  | 5.72     | 0.13                | 5.72       |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 20                  | 5.72     | 0.21                | 5.72       |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 20                  | 5.72     | 0.21                | 5.72       |
| (1,4036) | 1:A:21:SER:H   | 1:A:31:LYS:HB3 | 20                  | 5.72     | 0.17                | 5.7        |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 20                  | 5.72     | 0.86                | 5.12       |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H   | 20                  | 5.72     | 0.46                | 5.68       |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 20                  | 5.72     | 0.17                | 5.82       |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 20                  | 5.72     | 0.17                | 5.82       |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2 | 20                  | 5.71     | 0.3                 | 5.78       |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3 | 20                  | 5.71     | 0.3                 | 5.78       |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 20                  | 5.71     | 0.23                | 5.63       |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2 | 20                  | 5.71     | 0.03                | 5.71       |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1 | 20                  | 5.71     | 0.25                | 5.7        |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2 | 20                  | 5.71     | 0.25                | 5.7        |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 20                  | 5.71     | 0.25                | 5.7        |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 20                  | 5.71     | 0.25                | 5.7        |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA  | 20                  | 5.71     | 0.38                | 5.82       |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA  | 20                  | 5.71     | 0.38                | 5.82       |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2 | 20                  | 5.7      | 0.28                | 5.8        |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3 | 20                  | 5.7      | 0.28                | 5.8        |
| (1,3925) | 1:A:20:CYS:H   | 1:A:25:TYR:HD1 | 20                  | 5.69     | 0.03                | 5.69       |
| (1,3925) | 1:A:20:CYS:H   | 1:A:25:TYR:HD2 | 20                  | 5.69     | 0.03                | 5.69       |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA  | 20                  | 5.69     | 0.48                | 5.61       |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 20                  | 5.68     | 0.07                | 5.67       |
| (1,3871) | 1:A:19:CYS:HB2 | 1:A:23:TYR:H   | 20                  | 5.68     | 0.03                | 5.69       |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 20                  | 5.68     | 0.67                | 5.43       |
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG2 | 20                  | 5.68     | 0.92                | 5.15       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG3  | 20                  | 5.68     | 0.92                | 5.15       |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 20                  | 5.67     | 0.18                | 5.72       |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 20                  | 5.67     | 0.18                | 5.72       |
| (1,3987) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HD1  | 20                  | 5.67     | 0.18                | 5.72       |
| (1,3987) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HD2  | 20                  | 5.67     | 0.18                | 5.72       |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2  | 20                  | 5.67     | 0.02                | 5.68       |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 20                  | 5.67     | 0.23                | 5.74       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 20                  | 5.67     | 0.22                | 5.61       |
| (1,3974) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HE1  | 20                  | 5.66     | 0.13                | 5.62       |
| (1,3974) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HE2  | 20                  | 5.66     | 0.13                | 5.62       |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 20                  | 5.65     | 0.9                 | 5.87       |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 20                  | 5.65     | 0.9                 | 5.87       |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE21 | 20                  | 5.64     | 0.81                | 5.6        |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE22 | 20                  | 5.64     | 0.81                | 5.6        |
| (1,4428) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB2  | 20                  | 5.64     | 0.59                | 5.62       |
| (1,4428) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB2  | 20                  | 5.64     | 0.59                | 5.62       |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H    | 20                  | 5.64     | 0.18                | 5.64       |
| (1,3721) | 1:A:18:LEU:HB3 | 1:A:32:TYR:H    | 20                  | 5.63     | 0.16                | 5.64       |
| (1,3660) | 1:A:18:LEU:H   | 1:A:33:CYS:H    | 20                  | 5.63     | 0.09                | 5.62       |
| (1,4041) | 1:A:21:SER:H   | 1:A:34:ALA:H    | 20                  | 5.62     | 0.12                | 5.64       |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3  | 20                  | 5.62     | 0.03                | 5.63       |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 20                  | 5.62     | 0.36                | 5.44       |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 20                  | 5.62     | 0.36                | 5.44       |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 20                  | 5.62     | 1.08                | 5.72       |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 20                  | 5.62     | 1.08                | 5.72       |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 20                  | 5.62     | 1.08                | 5.72       |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 20                  | 5.61     | 0.14                | 5.66       |
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H    | 20                  | 5.61     | 0.72                | 5.5        |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H    | 20                  | 5.61     | 0.72                | 5.5        |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H    | 20                  | 5.61     | 0.07                | 5.6        |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 20                  | 5.61     | 0.07                | 5.59       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 20                  | 5.61     | 0.14                | 5.6        |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 20                  | 5.61     | 0.14                | 5.6        |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 20                  | 5.61     | 0.14                | 5.6        |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 20                  | 5.6      | 0.17                | 5.6        |
| (1,1129) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE1 | 20                  | 5.6      | 0.18                | 5.56       |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H   | 20                  | 5.6      | 0.1                 | 5.62       |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 20                  | 5.6      | 1.24                | 5.88       |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 20                  | 5.6      | 1.24                | 5.88       |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 20                  | 5.6      | 1.24                | 5.88       |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 20                  | 5.59     | 0.05                | 5.6        |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 20                  | 5.59     | 0.04                | 5.59       |
| (1,1926) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ3 | 20                  | 5.57     | 0.1                 | 5.6        |
| (1,1406) | 1:A:5:GLY:H     | 1:A:11:TRP:HD1 | 20                  | 5.57     | 0.1                 | 5.53       |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 20                  | 5.57     | 0.05                | 5.58       |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 20                  | 5.57     | 0.87                | 6.23       |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 20                  | 5.57     | 0.87                | 6.23       |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 20                  | 5.57     | 0.87                | 6.23       |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 20                  | 5.57     | 0.25                | 5.51       |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 20                  | 5.57     | 0.08                | 5.56       |
| (1,1745) | 1:A:6:GLN:HG3   | 1:A:12:GLY:H   | 20                  | 5.56     | 0.05                | 5.58       |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA  | 20                  | 5.56     | 0.29                | 5.58       |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 20                  | 5.56     | 0.14                | 5.64       |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 20                  | 5.56     | 0.22                | 5.54       |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 20                  | 5.56     | 0.22                | 5.54       |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1 | 20                  | 5.56     | 0.22                | 5.54       |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2 | 20                  | 5.56     | 0.22                | 5.54       |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 20                  | 5.56     | 0.28                | 5.62       |
| (1,1287) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HB2 | 20                  | 5.56     | 0.26                | 5.54       |
| (1,1287) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HB3 | 20                  | 5.56     | 0.26                | 5.54       |
| (1,1485) | 1:A:5:GLY:HA3   | 1:A:20:CYS:HB2 | 20                  | 5.56     | 0.25                | 5.54       |
| (1,1940) | 1:A:7:CYS:H     | 1:A:19:CYS:HA  | 20                  | 5.56     | 0.19                | 5.46       |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2 | 20                  | 5.56     | 1.53                | 5.65       |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H   | 20                  | 5.55     | 0.16                | 5.52       |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H   | 20                  | 5.55     | 0.16                | 5.52       |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2 | 20                  | 5.55     | 0.91                | 5.76       |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3 | 20                  | 5.55     | 0.91                | 5.76       |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 20                  | 5.54     | 0.07                | 5.54       |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 20                  | 5.54     | 0.07                | 5.54       |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 20                  | 5.54     | 1.02                | 5.55       |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 20                  | 5.54     | 1.02                | 5.55       |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 20                  | 5.54     | 0.17                | 5.54       |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 20                  | 5.53     | 0.1                 | 5.54       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 20                  | 5.53     | 0.1                 | 5.54       |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 20                  | 5.52     | 0.74                | 5.03       |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 20                  | 5.52     | 0.74                | 5.03       |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 20                  | 5.52     | 0.13                | 5.54       |
| (1,1948) | 1:A:7:CYS:H     | 1:A:22:GLN:HA  | 20                  | 5.51     | 0.1                 | 5.5        |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H   | 20                  | 5.51     | 0.04                | 5.51       |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 20                  | 5.51     | 0.9                 | 5.56       |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 20                  | 5.5      | 1.85                | 5.11       |
| (1,1418) | 1:A:5:GLY:H     | 1:A:18:LEU:HB3 | 20                  | 5.5      | 0.3                 | 5.47       |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 20                  | 5.5      | 0.9                 | 5.38       |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 20                  | 5.5      | 0.9                 | 5.38       |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 20                  | 5.49     | 2.99                | 4.31       |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 20                  | 5.49     | 2.99                | 4.31       |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 20                  | 5.49     | 1.95                | 5.35       |
| (1,1591) | 1:A:6:GLN:HB2   | 1:A:13:GLY:H   | 20                  | 5.49     | 0.1                 | 5.51       |
| (1,2331) | 1:A:9:PRO:HG2   | 1:A:24:GLY:HA2 | 20                  | 5.48     | 0.28                | 5.54       |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 20                  | 5.48     | 0.36                | 5.28       |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2 | 20                  | 5.48     | 0.12                | 5.48       |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3 | 20                  | 5.48     | 0.12                | 5.48       |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 20                  | 5.48     | 0.08                | 5.49       |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 20                  | 5.48     | 0.1                 | 5.44       |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 20                  | 5.48     | 0.26                | 5.43       |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 20                  | 5.48     | 0.19                | 5.44       |
| (1,1653) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HB3 | 20                  | 5.48     | 0.15                | 5.45       |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2 | 20                  | 5.47     | 0.22                | 5.46       |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2 | 20                  | 5.47     | 0.22                | 5.46       |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H   | 20                  | 5.47     | 0.21                | 5.56       |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 20                  | 5.47     | 0.22                | 5.39       |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2 | 20                  | 5.47     | 0.42                | 5.71       |
| (1,1217) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HB2 | 20                  | 5.47     | 0.39                | 5.39       |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 20                  | 5.46     | 0.03                | 5.46       |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 20                  | 5.46     | 0.27                | 5.6        |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 20                  | 5.45     | 1.15                | 5.78       |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 20                  | 5.45     | 1.15                | 5.78       |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 20                  | 5.45     | 1.15                | 5.78       |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2 | 20                  | 5.45     | 0.06                | 5.45       |
| (1,1285) | 1:A:4:ASN:HD21  | 1:A:26:CYS:H   | 20                  | 5.45     | 0.34                | 5.42       |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA  | 20                  | 5.44     | 0.12                | 5.45       |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA  | 20                  | 5.44     | 0.12                | 5.45       |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 20                  | 5.44     | 0.45                | 5.25       |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 20                  | 5.44     | 0.58                | 5.16       |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 20                  | 5.43     | 0.17                | 5.43       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 20                  | 5.43     | 0.17                | 5.43       |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 20                  | 5.43     | 0.17                | 5.43       |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 20                  | 5.43     | 0.1                 | 5.43       |
| (1,1556) | 1:A:6:GLN:HA    | 1:A:14:CYS:HB2 | 20                  | 5.43     | 0.07                | 5.44       |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 20                  | 5.43     | 0.08                | 5.42       |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 20                  | 5.42     | 0.55                | 5.49       |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 20                  | 5.42     | 0.55                | 5.49       |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 20                  | 5.42     | 0.55                | 5.49       |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 20                  | 5.42     | 0.55                | 5.49       |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 20                  | 5.42     | 0.09                | 5.4        |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3 | 20                  | 5.42     | 1.68                | 5.52       |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 20                  | 5.42     | 1.68                | 5.52       |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 20                  | 5.42     | 0.1                 | 5.44       |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 20                  | 5.41     | 0.82                | 5.85       |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 20                  | 5.41     | 0.82                | 5.85       |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE1 | 20                  | 5.4      | 0.39                | 5.35       |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE2 | 20                  | 5.4      | 0.39                | 5.35       |
| (1,2016) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HE1 | 20                  | 5.4      | 0.39                | 5.35       |
| (1,2016) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HE2 | 20                  | 5.4      | 0.39                | 5.35       |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 20                  | 5.39     | 1.03                | 5.26       |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 20                  | 5.39     | 1.03                | 5.26       |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 20                  | 5.39     | 1.19                | 5.51       |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 20                  | 5.39     | 1.19                | 5.51       |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 20                  | 5.39     | 1.19                | 5.51       |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 20                  | 5.39     | 1.95                | 5.16       |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 20                  | 5.39     | 1.95                | 5.16       |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 20                  | 5.39     | 1.95                | 5.16       |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 20                  | 5.38     | 0.04                | 5.4        |
| (1,4890) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HA  | 20                  | 5.38     | 2.01                | 5.44       |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3 | 20                  | 5.38     | 0.19                | 5.46       |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE1 | 20                  | 5.38     | 0.29                | 5.39       |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE2 | 20                  | 5.38     | 0.29                | 5.39       |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 20                  | 5.38     | 0.5                 | 5.49       |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 20                  | 5.38     | 0.5                 | 5.49       |
| (1,1618) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HA   | 20                  | 5.37     | 0.04                | 5.38       |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 20                  | 5.37     | 1.0                 | 5.28       |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 20                  | 5.37     | 1.0                 | 5.28       |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD1 | 20                  | 5.37     | 0.05                | 5.38       |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD2 | 20                  | 5.37     | 0.05                | 5.38       |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 20                  | 5.36     | 1.84                | 4.99       |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 20                  | 5.36     | 1.84                | 4.99       |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 20                  | 5.36     | 1.84                | 4.99       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 20                  | 5.35     | 0.34                | 5.36       |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 20                  | 5.35     | 0.34                | 5.36       |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 20                  | 5.34     | 0.33                | 5.28       |
| (1,1896) | 1:A:6:GLN:HE22  | 1:A:24:GLY:HA2 | 20                  | 5.34     | 0.22                | 5.36       |
| (1,1896) | 1:A:6:GLN:HE22  | 1:A:24:GLY:HA3 | 20                  | 5.34     | 0.22                | 5.36       |
| (1,1759) | 1:A:6:GLN:HG3   | 1:A:21:SER:HB2 | 20                  | 5.34     | 0.14                | 5.31       |
| (1,1759) | 1:A:6:GLN:HG3   | 1:A:21:SER:HB3 | 20                  | 5.34     | 0.14                | 5.31       |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 20                  | 5.34     | 0.09                | 5.32       |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB2 | 20                  | 5.33     | 0.05                | 5.34       |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB3 | 20                  | 5.33     | 0.05                | 5.34       |
| (1,2057) | 1:A:8:GLY:H     | 1:A:25:TYR:HD1 | 20                  | 5.33     | 0.32                | 5.24       |
| (1,2057) | 1:A:8:GLY:H     | 1:A:25:TYR:HD2 | 20                  | 5.33     | 0.32                | 5.24       |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3 | 20                  | 5.31     | 1.83                | 5.72       |
| (1,1719) | 1:A:6:GLN:HG2   | 1:A:24:GLY:H   | 20                  | 5.31     | 0.18                | 5.3        |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 20                  | 5.31     | 0.14                | 5.33       |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 20                  | 5.31     | 0.23                | 5.44       |
| (1,1646) | 1:A:6:GLN:HB3   | 1:A:21:SER:HG  | 20                  | 5.3      | 0.07                | 5.3        |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 20                  | 5.3      | 1.82                | 4.24       |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD1 | 20                  | 5.3      | 0.2                 | 5.32       |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD2 | 20                  | 5.3      | 0.2                 | 5.32       |
| (1,1791) | 1:A:6:GLN:HE21  | 1:A:7:CYS:HB2  | 20                  | 5.3      | 0.14                | 5.34       |
| (1,1791) | 1:A:6:GLN:HE21  | 1:A:7:CYS:HB3  | 20                  | 5.3      | 0.14                | 5.34       |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 20                  | 5.3      | 0.17                | 5.29       |
| (1,1644) | 1:A:6:GLN:HB3   | 1:A:21:SER:H   | 20                  | 5.3      | 0.07                | 5.26       |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2 | 20                  | 5.3      | 0.15                | 5.34       |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3 | 20                  | 5.3      | 0.15                | 5.34       |
| (1,1959) | 1:A:7:CYS:H     | 1:A:27:GLY:HA2 | 20                  | 5.29     | 0.08                | 5.26       |
| (1,1959) | 1:A:7:CYS:H     | 1:A:27:GLY:HA3 | 20                  | 5.29     | 0.08                | 5.26       |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1 | 20                  | 5.29     | 0.25                | 5.25       |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2 | 20                  | 5.29     | 0.25                | 5.25       |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 20                  | 5.29     | 0.77                | 4.81       |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 20                  | 5.29     | 1.68                | 5.56       |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 20                  | 5.29     | 1.68                | 5.56       |
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2 | 20                  | 5.29     | 0.2                 | 5.34       |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2 | 20                  | 5.29     | 0.2                 | 5.34       |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE1 | 20                  | 5.28     | 0.31                | 5.23       |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE2 | 20                  | 5.28     | 0.31                | 5.23       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H   | 20                  | 5.28     | 0.9                 | 5.78       |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H   | 20                  | 5.28     | 0.9                 | 5.78       |
| (1,3857) | 1:A:19:CYS:HA  | 1:A:25:TYR:H   | 20                  | 5.28     | 0.07                | 5.28       |
| (1,4130) | 1:A:22:GLN:H   | 1:A:35:HIS:H   | 20                  | 5.28     | 1.9                 | 3.95       |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H   | 20                  | 5.27     | 0.97                | 5.72       |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H   | 20                  | 5.27     | 0.97                | 5.72       |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 20                  | 5.26     | 0.15                | 5.22       |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3 | 20                  | 5.26     | 0.33                | 5.42       |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 20                  | 5.26     | 0.16                | 5.3        |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 20                  | 5.25     | 0.27                | 5.2        |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 20                  | 5.25     | 0.27                | 5.2        |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 20                  | 5.25     | 0.02                | 5.24       |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 20                  | 5.25     | 0.1                 | 5.24       |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 20                  | 5.25     | 0.1                 | 5.24       |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 20                  | 5.24     | 0.41                | 5.16       |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 20                  | 5.24     | 0.41                | 5.16       |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 20                  | 5.24     | 0.31                | 5.21       |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 20                  | 5.24     | 0.31                | 5.21       |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 20                  | 5.24     | 0.01                | 5.24       |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 20                  | 5.24     | 0.17                | 5.24       |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 20                  | 5.24     | 1.04                | 4.62       |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 20                  | 5.24     | 1.04                | 4.62       |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 20                  | 5.24     | 0.05                | 5.23       |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H   | 20                  | 5.23     | 0.09                | 5.22       |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 20                  | 5.23     | 0.38                | 5.28       |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3 | 20                  | 5.23     | 0.08                | 5.22       |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1 | 20                  | 5.23     | 0.05                | 5.23       |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2 | 20                  | 5.23     | 0.05                | 5.23       |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 20                  | 5.23     | 0.18                | 5.15       |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 20                  | 5.23     | 0.18                | 5.15       |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 20                  | 5.23     | 1.48                | 4.98       |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 20                  | 5.23     | 1.48                | 4.98       |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 20                  | 5.23     | 0.19                | 5.2        |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 20                  | 5.23     | 0.24                | 5.18       |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 20                  | 5.23     | 0.24                | 5.18       |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 20                  | 5.23     | 0.06                | 5.22       |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 20                  | 5.23     | 0.09                | 5.26       |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 20                  | 5.23     | 0.09                | 5.26       |
| (1,4062) | 1:A:21:SER:HB3 | 1:A:31:LYS:HG3 | 20                  | 5.22     | 0.92                | 4.88       |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 20                  | 5.22     | 0.24                | 5.34       |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 20                  | 5.22     | 0.24                | 5.34       |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 20                  | 5.22     | 0.12                | 5.2        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1742) | 1:A:6:GLN:HG3   | 1:A:11:TRP:H   | 20                  | 5.22     | 0.06                | 5.24       |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 20                  | 5.22     | 1.87                | 5.06       |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 20                  | 5.22     | 1.87                | 5.06       |
| (1,599)  | 1:A:2:GLY:H     | 1:A:4:ASN:HD22 | 20                  | 5.22     | 0.57                | 5.62       |
| (1,1992) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HG  | 20                  | 5.2      | 0.12                | 5.22       |
| (1,1992) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HG  | 20                  | 5.2      | 0.12                | 5.22       |
| (1,1740) | 1:A:6:GLN:HG3   | 1:A:9:PRO:HD2  | 20                  | 5.19     | 0.07                | 5.19       |
| (1,1740) | 1:A:6:GLN:HG3   | 1:A:9:PRO:HD3  | 20                  | 5.19     | 0.07                | 5.19       |
| (1,2111) | 1:A:8:GLY:HA3   | 1:A:21:SER:H   | 20                  | 5.19     | 0.2                 | 5.26       |
| (1,1521) | 1:A:6:GLN:H     | 1:A:21:SER:H   | 20                  | 5.19     | 0.12                | 5.18       |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 20                  | 5.19     | 0.11                | 5.19       |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 20                  | 5.19     | 0.11                | 5.19       |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB2 | 20                  | 5.19     | 0.07                | 5.22       |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB3 | 20                  | 5.19     | 0.07                | 5.22       |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 20                  | 5.19     | 0.05                | 5.19       |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 20                  | 5.19     | 0.17                | 5.14       |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 20                  | 5.19     | 0.14                | 5.2        |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 20                  | 5.19     | 0.14                | 5.2        |
| (1,1703) | 1:A:6:GLN:HG2   | 1:A:12:GLY:H   | 20                  | 5.18     | 0.09                | 5.21       |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 20                  | 5.18     | 0.14                | 5.24       |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 20                  | 5.17     | 0.13                | 5.12       |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 20                  | 5.17     | 0.13                | 5.12       |
| (1,1997) | 1:A:7:CYS:HB2   | 1:A:22:GLN:H   | 20                  | 5.17     | 0.25                | 5.24       |
| (1,1997) | 1:A:7:CYS:HB3   | 1:A:22:GLN:H   | 20                  | 5.17     | 0.25                | 5.24       |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA  | 20                  | 5.16     | 0.19                | 5.06       |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 20                  | 5.16     | 0.77                | 5.41       |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 20                  | 5.16     | 0.77                | 5.41       |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 20                  | 5.14     | 0.07                | 5.16       |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 20                  | 5.14     | 2.27                | 6.23       |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB2  | 20                  | 5.14     | 0.04                | 5.12       |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 20                  | 5.14     | 0.04                | 5.12       |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 20                  | 5.13     | 1.35                | 5.12       |
| (1,1662) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HA  | 20                  | 5.13     | 0.11                | 5.07       |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H   | 20                  | 5.13     | 0.16                | 5.04       |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H   | 20                  | 5.13     | 0.16                | 5.04       |
| (1,1699) | 1:A:6:GLN:HG2   | 1:A:10:GLY:HA2 | 20                  | 5.13     | 0.11                | 5.16       |
| (1,1699) | 1:A:6:GLN:HG2   | 1:A:10:GLY:HA3 | 20                  | 5.13     | 0.11                | 5.16       |
| (1,1919) | 1:A:7:CYS:H     | 1:A:9:PRO:HA   | 20                  | 5.13     | 0.09                | 5.16       |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 20                  | 5.12     | 0.74                | 5.08       |
| (1,1211) | 1:A:4:ASN:HB3   | 1:A:21:SER:HG  | 20                  | 5.11     | 0.3                 | 5.04       |
| (1,1284) | 1:A:4:ASN:HD21  | 1:A:25:TYR:HB3 | 20                  | 5.11     | 0.29                | 5.05       |
| (1,1555) | 1:A:6:GLN:HA    | 1:A:11:TRP:HH2 | 20                  | 5.11     | 0.05                | 5.1        |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 20                  | 5.1      | 0.32                | 5.3        |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1  | 20                  | 5.1      | 0.12                | 5.12       |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2  | 20                  | 5.1      | 0.12                | 5.12       |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 20                  | 5.1      | 0.83                | 5.23       |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 20                  | 5.1      | 0.83                | 5.23       |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1  | 20                  | 5.1      | 0.11                | 5.04       |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2  | 20                  | 5.1      | 0.11                | 5.04       |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 20                  | 5.1      | 0.14                | 5.04       |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 20                  | 5.09     | 0.03                | 5.09       |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 20                  | 5.09     | 0.03                | 5.09       |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB2  | 20                  | 5.09     | 2.69                | 4.04       |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB3  | 20                  | 5.09     | 2.69                | 4.04       |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2  | 20                  | 5.09     | 0.94                | 5.6        |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3  | 20                  | 5.09     | 0.94                | 5.6        |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 20                  | 5.08     | 0.34                | 5.08       |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 20                  | 5.08     | 0.34                | 5.08       |
| (1,4091) | 1:A:21:SER:HG  | 1:A:32:TYR:H    | 20                  | 5.08     | 0.06                | 5.08       |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 20                  | 5.08     | 0.09                | 5.09       |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 20                  | 5.07     | 0.52                | 5.0        |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 20                  | 5.07     | 0.52                | 5.0        |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 20                  | 5.07     | 0.14                | 5.06       |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 20                  | 5.07     | 0.3                 | 5.08       |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 20                  | 5.07     | 0.3                 | 5.08       |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2   | 20                  | 5.07     | 0.05                | 5.06       |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3   | 20                  | 5.07     | 0.05                | 5.06       |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 20                  | 5.07     | 0.17                | 5.04       |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 20                  | 5.07     | 0.33                | 4.89       |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 20                  | 5.07     | 0.33                | 4.89       |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2  | 20                  | 5.06     | 0.99                | 5.31       |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 20                  | 5.05     | 0.1                 | 5.11       |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 20                  | 5.05     | 0.1                 | 5.11       |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 20                  | 5.04     | 1.01                | 4.97       |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 20                  | 5.04     | 1.01                | 4.97       |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 20                  | 5.04     | 2.39                | 5.94       |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H    | 20                  | 5.04     | 0.01                | 5.04       |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 20                  | 5.04     | 0.1                 | 5.06       |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 20                  | 5.03     | 0.22                | 4.94       |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2  | 20                  | 5.02     | 0.05                | 5.04       |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2  | 20                  | 5.02     | 0.36                | 5.03       |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3  | 20                  | 5.02     | 0.36                | 5.03       |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 20                  | 5.02     | 0.07                | 5.04       |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 20                  | 5.02     | 0.16                | 4.94       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 20                  | 5.02     | 0.16                | 4.94       |
| (1,3865) | 1:A:19:CYS:HA  | 1:A:35:HIS:H    | 20                  | 5.02     | 0.76                | 4.94       |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2  | 20                  | 5.01     | 1.15                | 4.31       |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3  | 20                  | 5.01     | 1.15                | 4.31       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 20                  | 5.01     | 0.24                | 4.97       |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2  | 20                  | 5.01     | 1.2                 | 4.96       |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2  | 20                  | 5.01     | 1.2                 | 4.96       |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 20                  | 5.01     | 0.03                | 5.0        |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 20                  | 5.0      | 0.07                | 4.97       |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB2  | 20                  | 5.0      | 0.5                 | 5.08       |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB2  | 20                  | 5.0      | 0.5                 | 5.08       |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB3  | 20                  | 5.0      | 0.5                 | 5.08       |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB3  | 20                  | 5.0      | 0.5                 | 5.08       |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H    | 20                  | 4.98     | 0.03                | 5.0        |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2  | 20                  | 4.98     | 0.06                | 4.97       |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3  | 20                  | 4.98     | 0.06                | 4.97       |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 20                  | 4.98     | 0.04                | 4.97       |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1  | 20                  | 4.98     | 0.15                | 4.96       |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2  | 20                  | 4.98     | 0.15                | 4.96       |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2  | 20                  | 4.98     | 1.33                | 5.0        |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3  | 20                  | 4.98     | 1.33                | 5.0        |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 20                  | 4.97     | 0.2                 | 4.96       |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 20                  | 4.97     | 0.2                 | 4.96       |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 20                  | 4.97     | 0.13                | 4.92       |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 20                  | 4.97     | 0.1                 | 4.95       |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H    | 20                  | 4.97     | 0.22                | 5.02       |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 20                  | 4.96     | 0.15                | 4.97       |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 20                  | 4.96     | 0.11                | 4.96       |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 20                  | 4.95     | 0.14                | 4.99       |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 20                  | 4.94     | 0.1                 | 4.98       |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 20                  | 4.94     | 0.12                | 4.96       |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 20                  | 4.93     | 0.29                | 5.12       |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 20                  | 4.93     | 0.22                | 4.88       |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 20                  | 4.93     | 0.22                | 4.88       |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 20                  | 4.93     | 0.22                | 4.88       |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 20                  | 4.93     | 0.04                | 4.93       |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 20                  | 4.93     | 0.04                | 4.93       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,2937) | 1:A:11:TRP:HZ2  | 1:A:12:GLY:H   | 20                  | 4.93     | 0.01                | 4.93       |
| (1,2059) | 1:A:8:GLY:H     | 1:A:26:CYS:HA  | 20                  | 4.93     | 0.13                | 4.94       |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 20                  | 4.92     | 0.36                | 4.8        |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 20                  | 4.92     | 0.36                | 4.8        |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 20                  | 4.91     | 0.88                | 4.97       |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 20                  | 4.9      | 0.12                | 4.96       |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 20                  | 4.9      | 0.75                | 5.12       |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 20                  | 4.9      | 0.75                | 5.12       |
| (1,576)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HE1 | 20                  | 4.9      | 0.26                | 4.89       |
| (1,576)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HE2 | 20                  | 4.9      | 0.26                | 4.89       |
| (1,576)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HE1 | 20                  | 4.9      | 0.26                | 4.89       |
| (1,576)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HE2 | 20                  | 4.9      | 0.26                | 4.89       |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 20                  | 4.89     | 0.21                | 4.94       |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 20                  | 4.89     | 0.21                | 4.94       |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 20                  | 4.89     | 0.13                | 4.88       |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H   | 20                  | 4.89     | 0.12                | 4.81       |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 20                  | 4.89     | 0.6                 | 4.69       |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 20                  | 4.89     | 0.6                 | 4.69       |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 20                  | 4.89     | 0.15                | 4.91       |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 20                  | 4.88     | 0.22                | 4.93       |
| (1,3917) | 1:A:20:CYS:H    | 1:A:23:TYR:H   | 20                  | 4.88     | 0.0                 | 4.88       |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 20                  | 4.87     | 0.79                | 5.18       |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 20                  | 4.87     | 0.72                | 5.26       |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 20                  | 4.87     | 0.13                | 4.82       |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 20                  | 4.87     | 0.71                | 4.5        |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1 | 20                  | 4.87     | 2.0                 | 4.33       |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1 | 20                  | 4.87     | 2.0                 | 4.33       |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 20                  | 4.86     | 0.85                | 5.27       |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 20                  | 4.86     | 0.85                | 5.27       |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 20                  | 4.86     | 0.55                | 5.17       |
| (1,1927) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ2 | 20                  | 4.86     | 0.15                | 4.88       |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 20                  | 4.85     | 0.03                | 4.84       |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 20                  | 4.85     | 0.03                | 4.84       |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 20                  | 4.85     | 0.03                | 4.84       |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 20                  | 4.85     | 0.03                | 4.84       |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 20                  | 4.84     | 0.1                 | 4.82       |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 20                  | 4.84     | 0.06                | 4.84       |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 20                  | 4.83     | 0.16                | 4.82       |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 20                  | 4.83     | 0.16                | 4.82       |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 20                  | 4.83     | 1.31                | 5.41       |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 20                  | 4.83     | 0.1                 | 4.78       |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 20                  | 4.83     | 0.1                 | 4.78       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB2  | 20                  | 4.82     | 0.11                | 4.78       |
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB3  | 20                  | 4.82     | 0.11                | 4.78       |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 20                  | 4.82     | 0.42                | 4.92       |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 20                  | 4.82     | 0.42                | 4.92       |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 20                  | 4.82     | 0.12                | 4.83       |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 20                  | 4.81     | 0.33                | 4.86       |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 20                  | 4.81     | 0.33                | 4.86       |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H    | 20                  | 4.81     | 0.19                | 4.9        |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H    | 20                  | 4.81     | 0.04                | 4.82       |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H    | 20                  | 4.81     | 0.14                | 4.73       |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2  | 20                  | 4.79     | 0.11                | 4.8        |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3  | 20                  | 4.79     | 0.11                | 4.8        |
| (1,577)  | 1:A:1:SER:HB2   | 1:A:27:GLY:H    | 20                  | 4.79     | 0.2                 | 4.77       |
| (1,577)  | 1:A:1:SER:HB3   | 1:A:27:GLY:H    | 20                  | 4.79     | 0.2                 | 4.77       |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD1  | 20                  | 4.78     | 0.45                | 4.56       |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD2  | 20                  | 4.78     | 0.45                | 4.56       |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H    | 20                  | 4.77     | 0.09                | 4.8        |
| (1,762)  | 1:A:3:PRO:HA    | 1:A:26:CYS:HB2  | 20                  | 4.77     | 0.18                | 4.77       |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2  | 20                  | 4.77     | 0.5                 | 4.49       |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3  | 20                  | 4.77     | 0.5                 | 4.49       |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 20                  | 4.77     | 0.04                | 4.75       |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 20                  | 4.76     | 0.1                 | 4.74       |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG   | 20                  | 4.75     | 0.21                | 4.74       |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG   | 20                  | 4.75     | 0.21                | 4.74       |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 20                  | 4.74     | 0.08                | 4.77       |
| (1,1768) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HA   | 20                  | 4.74     | 0.16                | 4.65       |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 20                  | 4.74     | 0.08                | 4.76       |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 20                  | 4.74     | 0.13                | 4.73       |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 20                  | 4.74     | 0.13                | 4.73       |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 20                  | 4.74     | 0.13                | 4.73       |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 20                  | 4.74     | 1.37                | 4.45       |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H    | 20                  | 4.73     | 1.28                | 4.19       |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 20                  | 4.73     | 0.05                | 4.74       |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 20                  | 4.73     | 0.25                | 4.81       |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 20                  | 4.73     | 0.25                | 4.81       |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3  | 20                  | 4.73     | 0.25                | 4.76       |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 20                  | 4.72     | 0.63                | 4.77       |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 20                  | 4.72     | 0.63                | 4.77       |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE1  | 20                  | 4.72     | 0.48                | 4.53       |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE2  | 20                  | 4.72     | 0.48                | 4.53       |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 20                  | 4.72     | 1.12                | 5.01       |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 20                  | 4.72     | 1.12                | 5.01       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H    | 20                  | 4.72     | 0.04                | 4.72       |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H    | 20                  | 4.72     | 0.04                | 4.72       |
| (1,901)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HZ2  | 20                  | 4.69     | 0.16                | 4.76       |
| (1,901)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HZ2  | 20                  | 4.69     | 0.16                | 4.76       |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 20                  | 4.69     | 0.11                | 4.69       |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2  | 20                  | 4.69     | 0.57                | 5.0        |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 20                  | 4.68     | 0.04                | 4.69       |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1  | 20                  | 4.67     | 0.26                | 4.62       |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1  | 20                  | 4.67     | 0.26                | 4.62       |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H    | 20                  | 4.67     | 0.08                | 4.69       |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 20                  | 4.67     | 0.11                | 4.64       |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 20                  | 4.67     | 0.11                | 4.64       |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 20                  | 4.67     | 0.11                | 4.64       |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 20                  | 4.67     | 0.06                | 4.64       |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H    | 20                  | 4.67     | 0.01                | 4.66       |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 20                  | 4.67     | 0.15                | 4.67       |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 20                  | 4.67     | 0.15                | 4.67       |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 20                  | 4.67     | 0.15                | 4.67       |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 20                  | 4.66     | 0.37                | 4.57       |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 20                  | 4.66     | 0.68                | 5.11       |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H     | 20                  | 4.66     | 0.06                | 4.68       |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 20                  | 4.66     | 0.38                | 4.8        |
| (1,1567) | 1:A:6:GLN:HA    | 1:A:23:TYR:H    | 20                  | 4.66     | 0.11                | 4.64       |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 20                  | 4.66     | 0.08                | 4.66       |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2   | 20                  | 4.65     | 0.03                | 4.65       |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3   | 20                  | 4.65     | 0.03                | 4.65       |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 20                  | 4.64     | 0.02                | 4.65       |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 20                  | 4.64     | 0.1                 | 4.61       |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 20                  | 4.64     | 0.1                 | 4.61       |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H    | 20                  | 4.64     | 0.45                | 4.58       |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 20                  | 4.64     | 0.19                | 4.71       |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 20                  | 4.64     | 0.19                | 4.71       |
| (1,1480) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HG   | 20                  | 4.64     | 0.3                 | 4.56       |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 20                  | 4.64     | 0.08                | 4.65       |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 20                  | 4.63     | 0.08                | 4.61       |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 20                  | 4.63     | 0.03                | 4.63       |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA    | 20                  | 4.61     | 0.06                | 4.62       |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA    | 20                  | 4.61     | 0.06                | 4.62       |
| (1,1512) | 1:A:6:GLN:H     | 1:A:12:GLY:H    | 20                  | 4.61     | 0.13                | 4.54       |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE   | 20                  | 4.6      | 1.64                | 5.26       |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2   | 20                  | 4.6      | 0.07                | 4.63       |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3   | 20                  | 4.6      | 0.07                | 4.63       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2  | 20                  | 4.59     | 0.61                | 4.16       |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 20                  | 4.59     | 0.17                | 4.5        |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 20                  | 4.59     | 0.2                 | 4.45       |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 20                  | 4.59     | 0.13                | 4.61       |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 20                  | 4.59     | 0.13                | 4.61       |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 20                  | 4.58     | 0.23                | 4.58       |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H    | 20                  | 4.58     | 0.9                 | 4.86       |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA2  | 20                  | 4.58     | 1.11                | 4.31       |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA3  | 20                  | 4.58     | 1.11                | 4.31       |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 20                  | 4.57     | 0.21                | 4.56       |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 20                  | 4.57     | 0.21                | 4.56       |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 20                  | 4.56     | 0.29                | 4.52       |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 20                  | 4.56     | 0.29                | 4.52       |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA   | 20                  | 4.56     | 0.52                | 4.54       |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA   | 20                  | 4.56     | 0.52                | 4.54       |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 20                  | 4.56     | 0.77                | 4.74       |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 20                  | 4.56     | 0.77                | 4.74       |
| (1,3945) | 1:A:20:CYS:H   | 1:A:34:ALA:H    | 20                  | 4.56     | 0.1                 | 4.54       |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H    | 20                  | 4.55     | 0.07                | 4.53       |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 20                  | 4.54     | 0.05                | 4.56       |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 20                  | 4.54     | 0.07                | 4.53       |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 20                  | 4.53     | 0.32                | 4.46       |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3   | 20                  | 4.53     | 0.04                | 4.54       |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H    | 20                  | 4.53     | 0.06                | 4.53       |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 20                  | 4.53     | 0.05                | 4.54       |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 20                  | 4.53     | 1.81                | 4.55       |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 20                  | 4.53     | 1.81                | 4.55       |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 20                  | 4.52     | 0.27                | 4.42       |
| (1,3887) | 1:A:19:CYS:HB3 | 1:A:21:SER:HG   | 20                  | 4.52     | 0.06                | 4.53       |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3  | 20                  | 4.52     | 0.43                | 4.5        |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3  | 20                  | 4.52     | 0.43                | 4.5        |
| (1,3676) | 1:A:18:LEU:HB2 | 1:A:21:SER:H    | 20                  | 4.52     | 0.11                | 4.54       |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3  | 20                  | 4.52     | 0.61                | 4.5        |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3  | 20                  | 4.52     | 0.61                | 4.5        |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 20                  | 4.52     | 0.29                | 4.51       |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 20                  | 4.51     | 0.18                | 4.49       |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 20                  | 4.51     | 0.18                | 4.49       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE1  | 20                  | 4.51     | 0.5                 | 4.59       |
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE2  | 20                  | 4.51     | 0.5                 | 4.59       |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE1  | 20                  | 4.51     | 0.5                 | 4.59       |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE2  | 20                  | 4.51     | 0.5                 | 4.59       |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 20                  | 4.5      | 0.09                | 4.52       |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 20                  | 4.5      | 0.01                | 4.5        |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H    | 20                  | 4.5      | 0.46                | 4.2        |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 20                  | 4.5      | 1.35                | 4.72       |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 20                  | 4.5      | 1.35                | 4.72       |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 20                  | 4.5      | 1.35                | 4.72       |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 20                  | 4.5      | 1.35                | 4.72       |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H    | 20                  | 4.5      | 0.69                | 4.81       |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H    | 20                  | 4.5      | 0.69                | 4.81       |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H    | 20                  | 4.5      | 0.69                | 4.81       |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H    | 20                  | 4.49     | 0.06                | 4.49       |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 20                  | 4.49     | 0.15                | 4.46       |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 20                  | 4.48     | 0.29                | 4.43       |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 20                  | 4.48     | 0.08                | 4.47       |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H    | 20                  | 4.48     | 0.1                 | 4.5        |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 20                  | 4.47     | 0.8                 | 4.76       |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 20                  | 4.47     | 0.8                 | 4.76       |
| (1,719)  | 1:A:2:GLY:HA3   | 1:A:12:GLY:H    | 20                  | 4.47     | 0.07                | 4.47       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD11 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD12 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD13 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD21 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD22 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD23 | 20                  | 4.47     | 0.23                | 4.42       |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 20                  | 4.46     | 0.03                | 4.47       |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2  | 20                  | 4.46     | 0.01                | 4.46       |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3  | 20                  | 4.46     | 0.01                | 4.46       |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 20                  | 4.46     | 0.75                | 4.54       |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 20                  | 4.46     | 0.19                | 4.54       |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 20                  | 4.46     | 0.19                | 4.54       |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2  | 20                  | 4.46     | 0.34                | 4.56       |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3  | 20                  | 4.46     | 0.34                | 4.56       |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 20                  | 4.45     | 0.54                | 4.28       |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 20                  | 4.45     | 0.54                | 4.28       |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2  | 20                  | 4.45     | 0.13                | 4.46       |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2  | 20                  | 4.45     | 0.13                | 4.46       |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H    | 20                  | 4.45     | 0.02                | 4.45       |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H    | 20                  | 4.44     | 0.08                | 4.43       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 20                  | 4.44     | 0.09                | 4.4        |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H    | 20                  | 4.44     | 0.27                | 4.43       |
| (1,2001) | 1:A:7:CYS:HB2   | 1:A:23:TYR:H    | 20                  | 4.43     | 0.3                 | 4.5        |
| (1,2001) | 1:A:7:CYS:HB3   | 1:A:23:TYR:H    | 20                  | 4.43     | 0.3                 | 4.5        |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA   | 20                  | 4.42     | 0.9                 | 5.04       |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 20                  | 4.42     | 0.09                | 4.4        |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 20                  | 4.42     | 0.09                | 4.4        |
| (1,607)  | 1:A:2:GLY:H     | 1:A:10:GLY:HA3  | 20                  | 4.42     | 0.18                | 4.31       |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 20                  | 4.42     | 0.16                | 4.44       |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 20                  | 4.42     | 0.16                | 4.44       |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 20                  | 4.42     | 0.16                | 4.44       |
| (1,1511) | 1:A:6:GLN:H     | 1:A:11:TRP:HH2  | 20                  | 4.42     | 0.17                | 4.34       |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2  | 20                  | 4.41     | 0.21                | 4.44       |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3  | 20                  | 4.41     | 0.21                | 4.44       |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2  | 20                  | 4.41     | 0.5                 | 4.14       |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2  | 20                  | 4.41     | 0.5                 | 4.14       |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3  | 20                  | 4.41     | 0.5                 | 4.14       |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3  | 20                  | 4.41     | 0.5                 | 4.14       |
| (1,1004) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HZ2  | 20                  | 4.41     | 0.19                | 4.46       |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1  | 20                  | 4.4      | 0.41                | 4.28       |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2  | 20                  | 4.4      | 0.41                | 4.28       |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1  | 20                  | 4.4      | 0.41                | 4.28       |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2  | 20                  | 4.4      | 0.41                | 4.28       |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2  | 20                  | 4.4      | 0.5                 | 4.57       |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 20                  | 4.39     | 1.47                | 4.4        |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 20                  | 4.39     | 1.47                | 4.4        |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1  | 20                  | 4.39     | 0.04                | 4.38       |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 20                  | 4.39     | 0.92                | 4.6        |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 20                  | 4.39     | 0.31                | 4.25       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 20                  | 4.39     | 0.19                | 4.31       |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1  | 20                  | 4.38     | 1.59                | 5.1        |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2  | 20                  | 4.38     | 1.59                | 5.1        |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 20                  | 4.38     | 0.07                | 4.38       |
| (1,1114) | 1:A:4:ASN:HA    | 1:A:6:GLN:HB3   | 20                  | 4.38     | 0.04                | 4.38       |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 20                  | 4.38     | 0.02                | 4.38       |
| (1,529)  | 1:A:1:SER:HA    | 1:A:26:CYS:H    | 20                  | 4.37     | 0.1                 | 4.41       |
| (1,685)  | 1:A:2:GLY:HA2   | 1:A:11:TRP:HE1  | 20                  | 4.37     | 0.14                | 4.32       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 20                  | 4.37     | 0.17                | 4.35       |
| (1,1440) | 1:A:5:GLY:H     | 1:A:26:CYS:HA  | 20                  | 4.37     | 0.18                | 4.37       |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 20                  | 4.37     | 0.36                | 4.38       |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 20                  | 4.37     | 0.36                | 4.38       |
| (1,2776) | 1:A:11:TRP:HE3  | 1:A:12:GLY:HA2 | 20                  | 4.37     | 0.02                | 4.37       |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 20                  | 4.37     | 0.05                | 4.38       |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 20                  | 4.37     | 0.05                | 4.36       |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 20                  | 4.36     | 0.06                | 4.36       |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3  | 20                  | 4.36     | 0.06                | 4.36       |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 20                  | 4.36     | 2.0                 | 3.87       |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 20                  | 4.36     | 0.03                | 4.36       |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 20                  | 4.36     | 0.61                | 4.27       |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 20                  | 4.36     | 0.16                | 4.4        |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 20                  | 4.36     | 0.16                | 4.4        |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 20                  | 4.36     | 0.16                | 4.4        |
| (1,841)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE3 | 20                  | 4.35     | 0.15                | 4.34       |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 20                  | 4.35     | 0.41                | 4.43       |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 20                  | 4.34     | 1.18                | 4.5        |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 20                  | 4.34     | 1.18                | 4.5        |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 20                  | 4.34     | 1.18                | 4.5        |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 20                  | 4.34     | 0.29                | 4.31       |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 20                  | 4.34     | 0.29                | 4.31       |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 20                  | 4.34     | 1.34                | 4.07       |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 20                  | 4.34     | 1.34                | 4.07       |
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA  | 20                  | 4.33     | 0.06                | 4.36       |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 20                  | 4.33     | 0.38                | 4.5        |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 20                  | 4.33     | 0.38                | 4.5        |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 20                  | 4.33     | 0.65                | 4.53       |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 20                  | 4.33     | 0.65                | 4.53       |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 20                  | 4.33     | 0.65                | 4.53       |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 20                  | 4.33     | 0.03                | 4.33       |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 20                  | 4.32     | 0.16                | 4.39       |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 20                  | 4.32     | 0.16                | 4.39       |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 20                  | 4.32     | 0.16                | 4.39       |
| (1,4816) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HB2 | 20                  | 4.32     | 1.7                 | 4.4        |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 20                  | 4.32     | 0.21                | 4.34       |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 20                  | 4.32     | 0.21                | 4.34       |
| (1,1760) | 1:A:6:GLN:HG3   | 1:A:21:SER:HG  | 20                  | 4.31     | 0.17                | 4.27       |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 20                  | 4.3      | 0.05                | 4.28       |
| (1,1529) | 1:A:6:GLN:H     | 1:A:24:GLY:HA2 | 20                  | 4.3      | 0.17                | 4.28       |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE1 | 20                  | 4.3      | 0.39                | 4.3        |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE2 | 20                  | 4.3      | 0.39                | 4.3        |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,897)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HB3  | 20                  | 4.3      | 0.07                | 4.3        |
| (1,897)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HB3  | 20                  | 4.3      | 0.07                | 4.3        |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 20                  | 4.29     | 1.3                 | 4.7        |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 20                  | 4.29     | 1.3                 | 4.7        |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 20                  | 4.29     | 0.09                | 4.27       |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 20                  | 4.28     | 1.46                | 4.81       |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 20                  | 4.28     | 1.46                | 4.81       |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2  | 20                  | 4.28     | 1.18                | 4.09       |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3  | 20                  | 4.28     | 1.18                | 4.09       |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2  | 20                  | 4.28     | 0.11                | 4.31       |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 20                  | 4.28     | 0.11                | 4.31       |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 20                  | 4.28     | 0.11                | 4.31       |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 20                  | 4.28     | 0.11                | 4.31       |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 20                  | 4.28     | 0.17                | 4.33       |
| (1,1945) | 1:A:7:CYS:H     | 1:A:21:SER:HB3  | 20                  | 4.27     | 0.07                | 4.24       |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE1  | 20                  | 4.27     | 0.31                | 4.29       |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE2  | 20                  | 4.27     | 0.31                | 4.29       |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE1  | 20                  | 4.27     | 0.31                | 4.29       |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE2  | 20                  | 4.27     | 0.31                | 4.29       |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H    | 20                  | 4.27     | 0.06                | 4.27       |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA   | 20                  | 4.27     | 0.94                | 4.58       |
| (1,4931) | 1:A:32:TYR:HE1  | 1:A:34:ALA:H    | 20                  | 4.27     | 0.12                | 4.31       |
| (1,4931) | 1:A:32:TYR:HE2  | 1:A:34:ALA:H    | 20                  | 4.27     | 0.12                | 4.31       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 20                  | 4.26     | 0.18                | 4.21       |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 20                  | 4.26     | 0.03                | 4.26       |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 20                  | 4.26     | 0.02                | 4.25       |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H    | 20                  | 4.26     | 0.88                | 4.1        |
| (1,4928) | 1:A:32:TYR:HD1  | 1:A:34:ALA:HA   | 20                  | 4.25     | 0.47                | 4.5        |
| (1,4928) | 1:A:32:TYR:HD2  | 1:A:34:ALA:HA   | 20                  | 4.25     | 0.47                | 4.5        |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 20                  | 4.25     | 0.06                | 4.24       |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 20                  | 4.25     | 0.06                | 4.24       |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 20                  | 4.25     | 0.06                | 4.24       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 20                  | 4.24     | 0.15                | 4.26       |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 20                  | 4.24     | 0.15                | 4.26       |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 20                  | 4.24     | 0.15                | 4.26       |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 20                  | 4.24     | 0.24                | 4.14       |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2 | 20                  | 4.24     | 0.05                | 4.26       |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 20                  | 4.24     | 0.66                | 4.35       |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 20                  | 4.24     | 0.18                | 4.17       |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 20                  | 4.23     | 0.25                | 4.22       |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 20                  | 4.23     | 0.66                | 3.87       |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 20                  | 4.22     | 0.15                | 4.22       |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 20                  | 4.22     | 0.15                | 4.22       |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 20                  | 4.22     | 0.15                | 4.22       |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 20                  | 4.22     | 0.05                | 4.22       |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 20                  | 4.22     | 0.09                | 4.24       |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 20                  | 4.22     | 0.26                | 4.08       |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 20                  | 4.22     | 0.03                | 4.22       |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 20                  | 4.22     | 0.27                | 4.34       |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 20                  | 4.22     | 0.27                | 4.34       |
| (1,768)  | 1:A:3:PRO:HB2   | 1:A:5:GLY:HA3  | 20                  | 4.22     | 0.02                | 4.21       |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 20                  | 4.21     | 0.14                | 4.19       |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB2  | 20                  | 4.2      | 0.14                | 4.27       |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB3  | 20                  | 4.2      | 0.14                | 4.27       |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 20                  | 4.2      | 0.58                | 4.05       |
| (1,835)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HE21 | 20                  | 4.2      | 0.05                | 4.2        |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 20                  | 4.2      | 0.7                 | 3.85       |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 20                  | 4.2      | 0.7                 | 3.85       |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 20                  | 4.2      | 0.47                | 4.16       |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 20                  | 4.19     | 0.02                | 4.2        |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 20                  | 4.19     | 0.14                | 4.18       |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 20                  | 4.19     | 1.0                 | 4.57       |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H   | 20                  | 4.18     | 0.06                | 4.18       |
| (1,4804) | 1:A:30:PRO:HB2  | 1:A:33:CYS:HA  | 20                  | 4.18     | 0.05                | 4.19       |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 20                  | 4.18     | 0.05                | 4.16       |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 20                  | 4.18     | 0.92                | 4.36       |
| (1,614)  | 1:A:2:GLY:H     | 1:A:13:GLY:H   | 20                  | 4.17     | 0.1                 | 4.19       |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 20                  | 4.17     | 0.06                | 4.18       |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 20                  | 4.16     | 0.31                | 4.32       |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 20                  | 4.15     | 0.1                 | 4.11       |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 20                  | 4.15     | 0.1                 | 4.11       |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA  | 20                  | 4.15     | 0.01                | 4.15       |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA  | 20                  | 4.15     | 0.01                | 4.15       |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 20                  | 4.15     | 0.13                | 4.08       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 20                  | 4.15     | 0.14                | 4.17       |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 20                  | 4.15     | 0.23                | 4.17       |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H    | 20                  | 4.14     | 0.27                | 4.04       |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 20                  | 4.14     | 0.16                | 4.12       |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2  | 20                  | 4.14     | 0.11                | 4.19       |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3  | 20                  | 4.14     | 0.11                | 4.19       |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 20                  | 4.14     | 0.03                | 4.14       |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 20                  | 4.14     | 0.03                | 4.14       |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 20                  | 4.14     | 0.03                | 4.14       |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 20                  | 4.13     | 0.19                | 4.14       |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 20                  | 4.13     | 0.19                | 4.14       |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 20                  | 4.12     | 0.03                | 4.11       |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 20                  | 4.11     | 0.01                | 4.11       |
| (1,530)  | 1:A:1:SER:HA    | 1:A:26:CYS:HB2 | 20                  | 4.11     | 0.23                | 4.18       |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3  | 20                  | 4.11     | 0.33                | 3.96       |
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3  | 20                  | 4.11     | 0.33                | 3.96       |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 20                  | 4.1      | 0.07                | 4.12       |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 20                  | 4.1      | 0.07                | 4.12       |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 20                  | 4.1      | 0.03                | 4.1        |
| (1,1128) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE3 | 20                  | 4.1      | 0.23                | 4.02       |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 20                  | 4.1      | 0.17                | 4.12       |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 20                  | 4.1      | 0.17                | 4.12       |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 20                  | 4.1      | 0.17                | 4.12       |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 20                  | 4.09     | 0.48                | 4.34       |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 20                  | 4.09     | 0.48                | 4.34       |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 20                  | 4.09     | 1.15                | 3.5        |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 20                  | 4.09     | 1.15                | 3.5        |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 20                  | 4.09     | 1.15                | 3.5        |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 20                  | 4.09     | 1.15                | 3.5        |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 20                  | 4.09     | 0.02                | 4.08       |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 20                  | 4.08     | 0.82                | 4.49       |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 20                  | 4.08     | 0.82                | 4.49       |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 20                  | 4.08     | 0.66                | 4.28       |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 20                  | 4.08     | 0.66                | 4.28       |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1 | 20                  | 4.08     | 0.26                | 3.99       |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2 | 20                  | 4.08     | 0.26                | 3.99       |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 20                  | 4.08     | 0.03                | 4.07       |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 20                  | 4.07     | 0.18                | 3.97       |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 20                  | 4.06     | 0.61                | 4.03       |
| (1,1130) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ3 | 20                  | 4.05     | 0.28                | 3.94       |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 20                  | 4.05     | 0.1                 | 4.04       |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 20                  | 4.05     | 0.1                 | 4.04       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD21  | 20                  | 4.04     | 0.38                | 4.16       |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD21  | 20                  | 4.04     | 0.38                | 4.16       |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD22  | 20                  | 4.04     | 0.38                | 4.16       |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD22  | 20                  | 4.04     | 0.38                | 4.16       |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA   | 20                  | 4.04     | 0.04                | 4.06       |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1  | 20                  | 4.02     | 0.28                | 3.97       |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2  | 20                  | 4.02     | 0.28                | 3.97       |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H    | 20                  | 4.02     | 0.07                | 4.0        |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3  | 20                  | 4.02     | 0.01                | 4.02       |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1  | 20                  | 4.01     | 0.38                | 3.81       |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2  | 20                  | 4.01     | 0.38                | 3.81       |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2  | 20                  | 4.01     | 1.33                | 3.88       |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3  | 20                  | 4.01     | 1.33                | 3.88       |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2  | 20                  | 4.01     | 1.33                | 3.88       |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3  | 20                  | 4.01     | 1.33                | 3.88       |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1  | 20                  | 4.01     | 0.53                | 3.66       |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2  | 20                  | 4.01     | 0.53                | 3.66       |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 20                  | 4.01     | 0.53                | 3.66       |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 20                  | 4.0      | 0.04                | 4.0        |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 20                  | 4.0      | 0.04                | 4.0        |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 20                  | 4.0      | 0.04                | 4.0        |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H    | 20                  | 3.99     | 0.18                | 4.05       |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21  | 20                  | 3.99     | 0.07                | 3.96       |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA   | 20                  | 3.99     | 0.3                 | 4.15       |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2  | 20                  | 3.99     | 0.15                | 3.97       |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3  | 20                  | 3.99     | 0.15                | 3.97       |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 20                  | 3.98     | 0.07                | 4.01       |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 20                  | 3.98     | 0.07                | 4.01       |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 20                  | 3.98     | 0.08                | 3.95       |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2  | 20                  | 3.98     | 0.1                 | 4.05       |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1  | 20                  | 3.97     | 0.57                | 3.57       |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2  | 20                  | 3.97     | 0.57                | 3.57       |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 20                  | 3.96     | 0.08                | 3.96       |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2  | 20                  | 3.96     | 0.29                | 3.96       |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2  | 20                  | 3.96     | 0.29                | 3.96       |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3  | 20                  | 3.96     | 0.29                | 3.96       |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3  | 20                  | 3.96     | 0.29                | 3.96       |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3  | 20                  | 3.95     | 0.13                | 3.93       |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 20                  | 3.95     | 0.2                 | 3.9        |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 20                  | 3.95     | 0.2                 | 3.9        |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 20                  | 3.95     | 0.2                 | 3.9        |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 20                  | 3.95     | 0.2                 | 3.9        |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 20                  | 3.95     | 0.2                 | 3.9        |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 20                  | 3.95     | 0.2                 | 3.9        |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 20                  | 3.94     | 0.14                | 3.98       |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 20                  | 3.94     | 0.14                | 3.98       |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 20                  | 3.94     | 0.14                | 3.98       |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA   | 20                  | 3.94     | 1.18                | 4.61       |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 20                  | 3.94     | 0.02                | 3.94       |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 20                  | 3.94     | 0.02                | 3.94       |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 20                  | 3.94     | 0.02                | 3.94       |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 20                  | 3.94     | 0.02                | 3.94       |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA   | 20                  | 3.94     | 0.1                 | 3.97       |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1  | 20                  | 3.94     | 0.26                | 4.04       |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2  | 20                  | 3.94     | 0.26                | 4.04       |
| (1,843)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ3  | 20                  | 3.94     | 0.23                | 3.97       |
| (1,678)  | 1:A:2:GLY:HA2   | 1:A:4:ASN:HD22  | 20                  | 3.93     | 0.65                | 4.4        |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1  | 20                  | 3.93     | 0.41                | 4.08       |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2  | 20                  | 3.93     | 0.41                | 4.08       |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 20                  | 3.92     | 0.12                | 3.92       |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 20                  | 3.92     | 0.04                | 3.91       |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H    | 20                  | 3.92     | 0.9                 | 4.12       |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2  | 20                  | 3.91     | 0.21                | 4.03       |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H    | 20                  | 3.91     | 0.11                | 3.94       |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 20                  | 3.91     | 0.18                | 3.95       |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 20                  | 3.91     | 0.28                | 3.97       |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3   | 20                  | 3.9      | 0.18                | 3.99       |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 20                  | 3.89     | 0.82                | 4.24       |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 20                  | 3.89     | 0.82                | 4.24       |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 20                  | 3.89     | 0.09                | 3.91       |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 20                  | 3.89     | 0.15                | 3.9        |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 20                  | 3.89     | 0.15                | 3.9        |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 20                  | 3.88     | 0.2                 | 3.82       |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 20                  | 3.88     | 0.2                 | 3.82       |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H    | 20                  | 3.88     | 0.22                | 3.82       |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 20                  | 3.88     | 0.07                | 3.9        |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1  | 20                  | 3.87     | 0.23                | 3.78       |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3  | 20                  | 3.87     | 1.08                | 4.36       |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3  | 20                  | 3.87     | 1.08                | 4.36       |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA   | 20                  | 3.86     | 0.82                | 3.46       |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 20                  | 3.86     | 0.11                | 3.88       |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 20                  | 3.86     | 0.11                | 3.88       |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 20                  | 3.86     | 0.11                | 3.88       |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3  | 20                  | 3.86     | 0.77                | 4.14       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 20                  | 3.86     | 1.24                | 4.22       |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 20                  | 3.85     | 0.89                | 4.4        |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 20                  | 3.85     | 0.01                | 3.85       |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 20                  | 3.85     | 0.8                 | 3.74       |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 20                  | 3.85     | 0.8                 | 3.74       |
| (1,1123) | 1:A:4:ASN:HB2   | 1:A:7:CYS:H    | 20                  | 3.85     | 0.19                | 3.96       |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 20                  | 3.85     | 0.18                | 3.79       |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 20                  | 3.85     | 0.64                | 3.5        |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2 | 20                  | 3.85     | 0.06                | 3.86       |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3 | 20                  | 3.85     | 0.06                | 3.86       |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 20                  | 3.84     | 1.28                | 4.22       |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 20                  | 3.84     | 0.13                | 3.79       |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 20                  | 3.83     | 0.09                | 3.83       |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 20                  | 3.83     | 0.09                | 3.83       |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 20                  | 3.8      | 0.06                | 3.82       |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 20                  | 3.8      | 0.12                | 3.78       |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 20                  | 3.8      | 0.12                | 3.78       |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 20                  | 3.79     | 0.08                | 3.79       |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 20                  | 3.79     | 0.08                | 3.79       |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 20                  | 3.79     | 0.12                | 3.79       |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 20                  | 3.79     | 0.02                | 3.78       |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 20                  | 3.78     | 0.15                | 3.75       |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 20                  | 3.78     | 0.15                | 3.75       |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 20                  | 3.78     | 0.14                | 3.73       |
| (1,1396) | 1:A:5:GLY:H     | 1:A:7:CYS:HA   | 20                  | 3.78     | 0.05                | 3.77       |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 20                  | 3.78     | 0.14                | 3.82       |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 20                  | 3.78     | 0.14                | 3.82       |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 20                  | 3.78     | 0.1                 | 3.75       |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 20                  | 3.78     | 0.01                | 3.78       |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 20                  | 3.78     | 0.96                | 3.08       |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 20                  | 3.78     | 0.19                | 3.86       |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 20                  | 3.77     | 0.04                | 3.76       |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 20                  | 3.77     | 0.04                | 3.76       |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2 | 20                  | 3.76     | 1.52                | 3.54       |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3 | 20                  | 3.76     | 1.52                | 3.54       |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2 | 20                  | 3.76     | 1.52                | 3.54       |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3 | 20                  | 3.76     | 1.52                | 3.54       |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 20                  | 3.76     | 0.47                | 4.08       |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 20                  | 3.76     | 0.47                | 4.08       |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 20                  | 3.75     | 0.03                | 3.74       |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 20                  | 3.75     | 0.03                | 3.74       |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 20                  | 3.75     | 0.01                | 3.75       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H   | 20                  | 3.74     | 1.27                | 4.54       |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H   | 20                  | 3.74     | 1.27                | 4.54       |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 20                  | 3.74     | 0.29                | 3.58       |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 20                  | 3.74     | 0.29                | 3.58       |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 20                  | 3.74     | 0.02                | 3.74       |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 20                  | 3.74     | 0.03                | 3.76       |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 20                  | 3.73     | 0.04                | 3.72       |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 20                  | 3.73     | 0.14                | 3.71       |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 20                  | 3.73     | 0.14                | 3.71       |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 20                  | 3.73     | 1.12                | 4.18       |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 20                  | 3.73     | 0.09                | 3.73       |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 20                  | 3.73     | 0.09                | 3.73       |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 20                  | 3.72     | 0.07                | 3.69       |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 20                  | 3.72     | 0.46                | 4.04       |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 20                  | 3.72     | 0.05                | 3.74       |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 20                  | 3.72     | 0.18                | 3.71       |
| (1,4926) | 1:A:32:TYR:HB3  | 1:A:35:HIS:H   | 20                  | 3.71     | 0.75                | 3.31       |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 20                  | 3.7      | 0.36                | 3.89       |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 20                  | 3.7      | 0.04                | 3.7        |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 20                  | 3.69     | 0.15                | 3.74       |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 20                  | 3.69     | 0.15                | 3.74       |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 20                  | 3.69     | 0.15                | 3.74       |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 20                  | 3.69     | 0.2                 | 3.65       |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3 | 20                  | 3.69     | 0.95                | 4.0        |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H   | 20                  | 3.69     | 0.16                | 3.59       |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 20                  | 3.69     | 0.34                | 3.68       |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 20                  | 3.69     | 0.34                | 3.68       |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 20                  | 3.69     | 0.1                 | 3.7        |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3 | 20                  | 3.68     | 0.19                | 3.78       |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3 | 20                  | 3.68     | 0.19                | 3.78       |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 20                  | 3.67     | 0.3                 | 3.62       |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 20                  | 3.67     | 0.3                 | 3.62       |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 20                  | 3.67     | 0.3                 | 3.62       |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 20                  | 3.67     | 0.3                 | 3.62       |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 20                  | 3.67     | 0.42                | 3.38       |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 20                  | 3.66     | 0.07                | 3.71       |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 20                  | 3.66     | 0.07                | 3.71       |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 20                  | 3.66     | 0.48                | 3.64       |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 20                  | 3.66     | 0.48                | 3.64       |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 20                  | 3.66     | 1.02                | 4.0        |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 20                  | 3.66     | 0.06                | 3.66       |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 20                  | 3.66     | 0.1                 | 3.62       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 20                  | 3.66     | 0.18                | 3.64       |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 20                  | 3.66     | 0.18                | 3.64       |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 20                  | 3.66     | 0.15                | 3.72       |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 20                  | 3.66     | 0.15                | 3.72       |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 20                  | 3.66     | 0.15                | 3.72       |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 20                  | 3.65     | 0.55                | 3.41       |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 20                  | 3.65     | 0.55                | 3.41       |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 20                  | 3.65     | 0.55                | 3.41       |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 20                  | 3.65     | 0.17                | 3.64       |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 20                  | 3.65     | 0.17                | 3.64       |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 20                  | 3.65     | 0.01                | 3.64       |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 20                  | 3.65     | 0.01                | 3.64       |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2 | 20                  | 3.65     | 0.19                | 3.7        |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3 | 20                  | 3.65     | 0.19                | 3.7        |
| (1,2460) | 1:A:10:GLY:H    | 1:A:11:TRP:HE3 | 20                  | 3.63     | 0.03                | 3.64       |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 20                  | 3.61     | 0.2                 | 3.7        |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 20                  | 3.6      | 0.19                | 3.53       |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 20                  | 3.6      | 0.19                | 3.53       |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 20                  | 3.6      | 0.19                | 3.53       |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 20                  | 3.6      | 0.19                | 3.53       |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 20                  | 3.57     | 1.25                | 3.14       |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 20                  | 3.57     | 1.25                | 3.14       |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 20                  | 3.57     | 1.25                | 3.14       |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 20                  | 3.57     | 1.25                | 3.14       |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2 | 20                  | 3.55     | 0.99                | 3.92       |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3 | 20                  | 3.55     | 0.99                | 3.92       |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3 | 20                  | 3.54     | 0.01                | 3.54       |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 20                  | 3.54     | 0.08                | 3.55       |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1 | 20                  | 3.54     | 0.4                 | 3.68       |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2 | 20                  | 3.54     | 0.4                 | 3.68       |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 20                  | 3.53     | 0.02                | 3.53       |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 20                  | 3.53     | 0.02                | 3.53       |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 20                  | 3.52     | 0.42                | 3.54       |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 20                  | 3.52     | 0.42                | 3.54       |
| (1,1246) | 1:A:4:ASN:HD21  | 1:A:5:GLY:HA2  | 20                  | 3.52     | 0.26                | 3.7        |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 20                  | 3.52     | 0.06                | 3.53       |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 20                  | 3.51     | 0.08                | 3.53       |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 20                  | 3.51     | 0.09                | 3.54       |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 20                  | 3.51     | 1.23                | 3.49       |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 20                  | 3.51     | 1.23                | 3.49       |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 20                  | 3.51     | 1.23                | 3.49       |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 20                  | 3.51     | 1.23                | 3.49       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 20                  | 3.5      | 0.49                | 3.23       |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 20                  | 3.5      | 0.49                | 3.23       |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2  | 20                  | 3.5      | 0.09                | 3.56       |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3  | 20                  | 3.5      | 0.09                | 3.56       |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 20                  | 3.5      | 0.06                | 3.5        |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 20                  | 3.49     | 1.01                | 3.47       |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 20                  | 3.48     | 0.73                | 3.61       |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 20                  | 3.48     | 0.73                | 3.61       |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 20                  | 3.48     | 0.93                | 3.36       |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 20                  | 3.48     | 0.93                | 3.36       |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 20                  | 3.48     | 0.93                | 3.36       |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 20                  | 3.48     | 0.93                | 3.36       |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 20                  | 3.48     | 0.01                | 3.48       |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 20                  | 3.47     | 1.12                | 3.3        |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 20                  | 3.47     | 0.13                | 3.44       |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 20                  | 3.47     | 0.13                | 3.44       |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 20                  | 3.47     | 0.09                | 3.49       |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 20                  | 3.46     | 0.16                | 3.49       |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 20                  | 3.46     | 0.04                | 3.44       |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 20                  | 3.46     | 0.08                | 3.48       |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3 | 20                  | 3.45     | 0.5                 | 3.76       |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 20                  | 3.44     | 1.33                | 3.82       |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 20                  | 3.44     | 1.33                | 3.82       |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 20                  | 3.44     | 0.09                | 3.4        |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 20                  | 3.44     | 0.72                | 3.6        |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 20                  | 3.44     | 0.2                 | 3.48       |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 20                  | 3.44     | 0.2                 | 3.48       |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 20                  | 3.43     | 0.13                | 3.37       |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 20                  | 3.43     | 0.11                | 3.47       |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 20                  | 3.42     | 0.94                | 3.48       |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 20                  | 3.42     | 0.04                | 3.42       |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 20                  | 3.42     | 0.04                | 3.42       |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 20                  | 3.41     | 0.13                | 3.47       |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 20                  | 3.41     | 0.79                | 3.1        |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 20                  | 3.41     | 0.79                | 3.1        |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 20                  | 3.41     | 0.79                | 3.1        |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 20                  | 3.41     | 0.79                | 3.1        |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 20                  | 3.41     | 0.25                | 3.49       |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 20                  | 3.4      | 0.35                | 3.61       |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 20                  | 3.4      | 0.42                | 3.51       |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 20                  | 3.4      | 0.42                | 3.51       |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 20                  | 3.38     | 0.08                | 3.41       |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 20                  | 3.36     | 0.22                | 3.4        |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 20                  | 3.36     | 0.22                | 3.4        |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 20                  | 3.36     | 0.2                 | 3.25       |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 20                  | 3.36     | 0.07                | 3.32       |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 20                  | 3.35     | 0.13                | 3.38       |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 20                  | 3.35     | 0.07                | 3.37       |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 20                  | 3.35     | 0.07                | 3.37       |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 20                  | 3.35     | 0.11                | 3.38       |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 20                  | 3.34     | 0.13                | 3.36       |
| (1,3271) | 1:A:15:ARG:H    | 1:A:26:CYS:HA  | 20                  | 3.33     | 0.93                | 2.76       |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 20                  | 3.33     | 0.08                | 3.36       |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 20                  | 3.33     | 0.09                | 3.33       |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 20                  | 3.33     | 0.88                | 3.62       |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 20                  | 3.33     | 0.88                | 3.62       |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 20                  | 3.33     | 0.37                | 3.22       |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 20                  | 3.32     | 0.11                | 3.28       |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 20                  | 3.32     | 0.04                | 3.3        |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 20                  | 3.32     | 0.04                | 3.3        |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 20                  | 3.32     | 0.18                | 3.33       |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 20                  | 3.31     | 0.17                | 3.22       |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 20                  | 3.31     | 0.17                | 3.22       |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 20                  | 3.31     | 0.08                | 3.34       |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 20                  | 3.31     | 0.08                | 3.34       |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 20                  | 3.31     | 0.01                | 3.31       |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 20                  | 3.3      | 0.06                | 3.28       |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 20                  | 3.29     | 0.75                | 3.39       |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 20                  | 3.29     | 0.75                | 3.39       |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 20                  | 3.29     | 0.54                | 3.62       |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 20                  | 3.29     | 0.18                | 3.32       |
| (1,4870) | 1:A:31:LYS:HG2  | 1:A:33:CYS:H   | 20                  | 3.28     | 0.39                | 3.27       |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 20                  | 3.28     | 0.49                | 3.24       |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 20                  | 3.28     | 0.33                | 3.35       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 20                  | 3.28     | 0.33                | 3.35       |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 20                  | 3.27     | 0.04                | 3.26       |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 20                  | 3.27     | 0.02                | 3.28       |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 20                  | 3.27     | 0.02                | 3.26       |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 20                  | 3.27     | 0.0                 | 3.27       |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA2 | 20                  | 3.27     | 0.13                | 3.21       |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA3 | 20                  | 3.27     | 0.13                | 3.21       |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 20                  | 3.27     | 0.06                | 3.27       |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 20                  | 3.26     | 0.01                | 3.26       |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 20                  | 3.25     | 0.14                | 3.33       |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 20                  | 3.24     | 0.02                | 3.24       |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA  | 20                  | 3.24     | 0.09                | 3.24       |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 20                  | 3.24     | 0.76                | 3.72       |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 20                  | 3.24     | 0.76                | 3.72       |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 20                  | 3.23     | 0.12                | 3.22       |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 20                  | 3.23     | 0.12                | 3.22       |
| (1,2252) | 1:A:9:PRO:HB3  | 1:A:12:GLY:H   | 20                  | 3.23     | 0.01                | 3.23       |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H   | 20                  | 3.23     | 0.34                | 2.98       |
| (1,3706) | 1:A:18:LEU:HB3 | 1:A:21:SER:H   | 20                  | 3.23     | 0.08                | 3.26       |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 20                  | 3.21     | 0.06                | 3.24       |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 20                  | 3.21     | 0.16                | 3.2        |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 20                  | 3.21     | 0.16                | 3.2        |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 20                  | 3.21     | 0.97                | 2.64       |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 20                  | 3.21     | 0.97                | 2.64       |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 20                  | 3.21     | 0.97                | 2.64       |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 20                  | 3.21     | 1.15                | 3.39       |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 20                  | 3.21     | 1.15                | 3.39       |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 20                  | 3.21     | 1.15                | 3.39       |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 20                  | 3.2      | 0.06                | 3.21       |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 20                  | 3.19     | 0.07                | 3.16       |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 20                  | 3.19     | 0.22                | 3.11       |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 20                  | 3.19     | 0.22                | 3.11       |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 20                  | 3.19     | 0.22                | 3.11       |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 20                  | 3.19     | 0.22                | 3.11       |
| (1,1561) | 1:A:6:GLN:HA   | 1:A:21:SER:H   | 20                  | 3.19     | 0.1                 | 3.16       |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA2 | 20                  | 3.18     | 0.06                | 3.16       |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA3 | 20                  | 3.18     | 0.06                | 3.16       |
| (1,4059) | 1:A:21:SER:HB3 | 1:A:26:CYS:HB2 | 20                  | 3.18     | 0.01                | 3.18       |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 20                  | 3.17     | 0.63                | 3.24       |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 20                  | 3.17     | 0.63                | 3.24       |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 20                  | 3.16     | 1.13                | 2.52       |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 20                  | 3.16     | 1.13                | 2.52       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 20                  | 3.16     | 0.48                | 3.24       |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 20                  | 3.16     | 0.48                | 3.24       |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 20                  | 3.16     | 0.54                | 2.94       |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 20                  | 3.16     | 0.54                | 2.94       |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 20                  | 3.15     | 0.1                 | 3.13       |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 20                  | 3.15     | 0.13                | 3.16       |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 20                  | 3.13     | 0.64                | 3.58       |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 20                  | 3.13     | 0.2                 | 3.08       |
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 20                  | 3.13     | 0.04                | 3.14       |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 20                  | 3.13     | 0.13                | 3.1        |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 20                  | 3.13     | 0.09                | 3.14       |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 20                  | 3.13     | 0.09                | 3.14       |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 20                  | 3.12     | 0.06                | 3.1        |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 20                  | 3.12     | 0.06                | 3.1        |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 20                  | 3.12     | 0.03                | 3.1        |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 20                  | 3.12     | 1.3                 | 3.64       |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 20                  | 3.12     | 1.3                 | 3.64       |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 20                  | 3.12     | 0.03                | 3.11       |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 20                  | 3.12     | 0.15                | 3.05       |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 20                  | 3.11     | 0.09                | 3.12       |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 20                  | 3.11     | 0.09                | 3.12       |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 20                  | 3.11     | 0.09                | 3.12       |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 20                  | 3.11     | 0.06                | 3.1        |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1 | 20                  | 3.1      | 1.28                | 3.17       |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2 | 20                  | 3.1      | 1.28                | 3.17       |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3 | 20                  | 3.1      | 1.28                | 3.17       |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 20                  | 3.1      | 0.29                | 3.1        |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 20                  | 3.1      | 0.29                | 3.1        |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 20                  | 3.1      | 0.08                | 3.13       |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 20                  | 3.1      | 0.51                | 3.07       |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 20                  | 3.09     | 0.25                | 2.99       |
| (1,2248) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HD1 | 20                  | 3.09     | 0.03                | 3.08       |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 20                  | 3.09     | 0.08                | 3.11       |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 20                  | 3.07     | 0.2                 | 3.13       |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 20                  | 3.07     | 0.2                 | 3.13       |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 20                  | 3.07     | 0.03                | 3.06       |
| (1,4940) | 1:A:34:ALA:HA   | 1:A:35:HIS:HD2 | 20                  | 3.07     | 0.94                | 3.3        |
| (1,4885) | 1:A:31:LYS:HG3  | 1:A:33:CYS:H   | 20                  | 3.06     | 0.32                | 3.0        |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 20                  | 3.06     | 0.05                | 3.04       |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 20                  | 3.06     | 0.02                | 3.06       |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 20                  | 3.06     | 0.02                | 3.06       |
| (1,1059) | 1:A:4:ASN:H     | 1:A:11:TRP:HB2 | 20                  | 3.05     | 0.11                | 3.02       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 20                  | 3.05     | 0.11                | 3.02       |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 20                  | 3.04     | 0.08                | 3.07       |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 20                  | 3.04     | 0.0                 | 3.04       |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 20                  | 3.04     | 0.03                | 3.04       |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2 | 20                  | 3.03     | 0.12                | 3.08       |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 20                  | 3.03     | 0.12                | 3.08       |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 20                  | 3.01     | 0.41                | 2.88       |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 20                  | 3.01     | 0.83                | 2.62       |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 20                  | 3.01     | 0.83                | 2.62       |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 20                  | 3.01     | 0.83                | 2.62       |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 20                  | 3.01     | 0.05                | 3.03       |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 20                  | 3.0      | 0.18                | 3.04       |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 20                  | 3.0      | 0.14                | 2.99       |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 20                  | 3.0      | 0.08                | 2.98       |
| (1,4134) | 1:A:22:GLN:HA  | 1:A:23:TYR:HB3 | 20                  | 3.0      | 0.01                | 3.01       |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 20                  | 3.0      | 0.14                | 3.0        |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 20                  | 3.0      | 0.42                | 2.72       |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 20                  | 2.99     | 0.03                | 3.0        |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2 | 20                  | 2.99     | 1.08                | 2.38       |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3 | 20                  | 2.99     | 1.08                | 2.38       |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 20                  | 2.98     | 0.07                | 2.99       |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 20                  | 2.98     | 0.07                | 2.99       |
| (1,2636) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ2 | 20                  | 2.98     | 0.0                 | 2.98       |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 20                  | 2.98     | 1.23                | 3.03       |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 20                  | 2.98     | 1.23                | 3.03       |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 20                  | 2.98     | 0.41                | 2.88       |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 20                  | 2.97     | 0.11                | 2.99       |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 20                  | 2.97     | 0.65                | 3.26       |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 20                  | 2.97     | 0.03                | 2.97       |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 20                  | 2.97     | 0.03                | 2.97       |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 20                  | 2.97     | 0.03                | 2.97       |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 20                  | 2.97     | 0.03                | 2.97       |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 20                  | 2.96     | 1.02                | 3.34       |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 20                  | 2.96     | 1.02                | 3.34       |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 20                  | 2.96     | 0.06                | 2.97       |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 20                  | 2.96     | 0.06                | 2.97       |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 20                  | 2.96     | 1.38                | 2.69       |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 20                  | 2.96     | 1.38                | 2.69       |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3 | 20                  | 2.95     | 0.4                 | 2.77       |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 20                  | 2.95     | 0.13                | 2.97       |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 20                  | 2.95     | 0.02                | 2.96       |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 20                  | 2.95     | 0.2                 | 2.91       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 20                  | 2.95     | 0.13                | 2.91       |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 20                  | 2.94     | 0.01                | 2.94       |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 20                  | 2.94     | 0.2                 | 2.94       |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 20                  | 2.92     | 0.1                 | 2.94       |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 20                  | 2.92     | 0.1                 | 2.94       |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 20                  | 2.92     | 0.08                | 2.92       |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 20                  | 2.92     | 0.06                | 2.9        |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 20                  | 2.91     | 0.23                | 2.92       |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 20                  | 2.91     | 0.23                | 2.92       |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 20                  | 2.91     | 0.23                | 2.92       |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 20                  | 2.91     | 0.23                | 2.92       |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 20                  | 2.91     | 0.06                | 2.89       |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 20                  | 2.91     | 0.06                | 2.89       |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1 | 20                  | 2.91     | 0.38                | 3.14       |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2 | 20                  | 2.91     | 0.38                | 3.14       |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3 | 20                  | 2.91     | 0.38                | 3.14       |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 20                  | 2.91     | 0.87                | 3.51       |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 20                  | 2.91     | 0.87                | 3.51       |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 20                  | 2.91     | 0.01                | 2.9        |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 20                  | 2.9      | 0.55                | 2.98       |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 20                  | 2.9      | 0.55                | 2.98       |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 20                  | 2.89     | 0.31                | 2.93       |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 20                  | 2.89     | 0.31                | 2.93       |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 20                  | 2.88     | 0.11                | 2.9        |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 20                  | 2.88     | 0.61                | 2.52       |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 20                  | 2.88     | 0.35                | 2.94       |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 20                  | 2.88     | 0.12                | 2.86       |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 20                  | 2.88     | 0.12                | 2.86       |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 20                  | 2.87     | 0.03                | 2.87       |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 20                  | 2.87     | 0.19                | 2.86       |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 20                  | 2.87     | 0.19                | 2.86       |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 20                  | 2.86     | 0.08                | 2.91       |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 20                  | 2.85     | 0.01                | 2.85       |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 20                  | 2.84     | 0.07                | 2.83       |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 20                  | 2.84     | 0.09                | 2.86       |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 20                  | 2.84     | 0.17                | 2.78       |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 20                  | 2.84     | 0.17                | 2.78       |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 20                  | 2.84     | 0.17                | 2.78       |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 20                  | 2.84     | 0.17                | 2.78       |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 20                  | 2.84     | 0.32                | 2.94       |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 20                  | 2.84     | 0.32                | 2.94       |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 20                  | 2.83     | 0.51                | 2.54       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 20                  | 2.83     | 0.1                 | 2.84       |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 20                  | 2.83     | 0.1                 | 2.84       |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2  | 20                  | 2.82     | 0.01                | 2.82       |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 20                  | 2.82     | 0.03                | 2.83       |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 20                  | 2.81     | 0.13                | 2.87       |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 20                  | 2.81     | 0.17                | 2.85       |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 20                  | 2.81     | 0.17                | 2.85       |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 20                  | 2.8      | 0.22                | 2.72       |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 20                  | 2.8      | 0.22                | 2.72       |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 20                  | 2.79     | 0.3                 | 2.78       |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 20                  | 2.79     | 0.22                | 2.9        |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 20                  | 2.78     | 0.16                | 2.72       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 20                  | 2.77     | 0.22                | 2.73       |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H    | 20                  | 2.77     | 0.01                | 2.77       |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA   | 20                  | 2.76     | 0.72                | 2.32       |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 20                  | 2.76     | 0.06                | 2.76       |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 20                  | 2.76     | 0.0                 | 2.76       |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 20                  | 2.76     | 0.0                 | 2.76       |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 20                  | 2.76     | 0.06                | 2.74       |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 20                  | 2.76     | 0.03                | 2.74       |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 20                  | 2.75     | 0.12                | 2.79       |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 20                  | 2.74     | 0.1                 | 2.72       |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 20                  | 2.74     | 0.19                | 2.7        |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 20                  | 2.74     | 0.55                | 2.99       |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 20                  | 2.74     | 0.55                | 2.99       |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 20                  | 2.74     | 0.03                | 2.72       |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H    | 20                  | 2.74     | 0.21                | 2.82       |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 20                  | 2.73     | 0.05                | 2.74       |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 20                  | 2.73     | 0.2                 | 2.76       |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 20                  | 2.73     | 0.2                 | 2.76       |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 20                  | 2.73     | 0.2                 | 2.76       |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 20                  | 2.73     | 0.16                | 2.74       |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 20                  | 2.73     | 0.07                | 2.75       |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 20                  | 2.73     | 0.07                | 2.75       |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 20                  | 2.71     | 0.01                | 2.71       |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 20                  | 2.71     | 0.01                | 2.71       |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 20                  | 2.7      | 0.07                | 2.73       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2  | 20                  | 2.7      | 0.14                | 2.6        |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3  | 20                  | 2.7      | 0.14                | 2.6        |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 20                  | 2.7      | 0.03                | 2.7        |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 20                  | 2.68     | 0.06                | 2.66       |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 20                  | 2.68     | 0.06                | 2.66       |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H    | 20                  | 2.68     | 0.89                | 2.52       |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 20                  | 2.67     | 0.15                | 2.66       |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 20                  | 2.67     | 0.11                | 2.68       |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 20                  | 2.66     | 0.13                | 2.66       |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 20                  | 2.66     | 0.13                | 2.66       |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 20                  | 2.66     | 0.14                | 2.66       |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 20                  | 2.65     | 0.1                 | 2.72       |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 20                  | 2.65     | 0.1                 | 2.72       |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22  | 20                  | 2.64     | 0.27                | 2.83       |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 20                  | 2.64     | 0.03                | 2.62       |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22  | 20                  | 2.62     | 0.64                | 3.08       |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 20                  | 2.62     | 0.09                | 2.63       |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 20                  | 2.62     | 1.33                | 3.43       |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 20                  | 2.61     | 0.13                | 2.54       |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 20                  | 2.61     | 0.13                | 2.54       |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 20                  | 2.61     | 0.04                | 2.61       |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 20                  | 2.61     | 0.04                | 2.61       |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 20                  | 2.6      | 0.28                | 2.58       |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 20                  | 2.6      | 0.28                | 2.58       |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 20                  | 2.59     | 0.07                | 2.56       |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 20                  | 2.59     | 0.11                | 2.63       |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 20                  | 2.59     | 0.11                | 2.63       |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 20                  | 2.59     | 0.11                | 2.63       |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 20                  | 2.59     | 0.11                | 2.63       |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 20                  | 2.59     | 0.54                | 2.26       |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H    | 20                  | 2.59     | 0.07                | 2.61       |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 20                  | 2.58     | 0.02                | 2.59       |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 20                  | 2.57     | 0.16                | 2.62       |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2  | 20                  | 2.57     | 0.03                | 2.55       |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3  | 20                  | 2.57     | 0.03                | 2.55       |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 20                  | 2.56     | 0.79                | 2.04       |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3  | 20                  | 2.56     | 0.29                | 2.4        |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3 | 20                  | 2.55     | 0.02                | 2.55       |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 20                  | 2.54     | 0.07                | 2.54       |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 20                  | 2.54     | 0.07                | 2.52       |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 20                  | 2.53     | 0.12                | 2.52       |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 20                  | 2.53     | 0.16                | 2.6        |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 20                  | 2.52     | 0.07                | 2.52       |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG  | 20                  | 2.51     | 0.85                | 2.89       |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 20                  | 2.51     | 0.02                | 2.52       |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 20                  | 2.5      | 0.11                | 2.45       |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 20                  | 2.49     | 1.15                | 1.82       |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 20                  | 2.49     | 0.23                | 2.5        |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 20                  | 2.49     | 0.23                | 2.5        |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 20                  | 2.48     | 0.4                 | 2.68       |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 20                  | 2.48     | 0.4                 | 2.68       |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 20                  | 2.47     | 0.24                | 2.51       |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 20                  | 2.45     | 0.08                | 2.46       |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 20                  | 2.45     | 0.08                | 2.46       |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 20                  | 2.45     | 0.18                | 2.46       |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 20                  | 2.45     | 0.18                | 2.46       |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 20                  | 2.45     | 0.21                | 2.44       |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 20                  | 2.44     | 0.05                | 2.46       |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 20                  | 2.44     | 0.05                | 2.46       |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 20                  | 2.43     | 0.1                 | 2.41       |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 20                  | 2.43     | 0.02                | 2.43       |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 20                  | 2.43     | 0.02                | 2.43       |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 20                  | 2.43     | 0.01                | 2.42       |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 20                  | 2.43     | 0.01                | 2.42       |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1 | 20                  | 2.42     | 0.01                | 2.42       |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 20                  | 2.42     | 0.95                | 2.82       |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 20                  | 2.42     | 0.95                | 2.82       |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 20                  | 2.4      | 0.13                | 2.35       |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 20                  | 2.4      | 0.08                | 2.39       |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 20                  | 2.39     | 0.13                | 2.39       |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 20                  | 2.39     | 0.13                | 2.39       |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 20                  | 2.38     | 0.55                | 2.41       |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 20                  | 2.38     | 0.55                | 2.41       |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 20                  | 2.38     | 0.03                | 2.37       |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 20                  | 2.38     | 0.03                | 2.37       |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 20                  | 2.37     | 0.11                | 2.33       |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA  | 20                  | 2.37     | 0.0                 | 2.37       |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2  | 20                  | 2.36     | 0.0                 | 2.36       |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3  | 20                  | 2.36     | 0.0                 | 2.36       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 20                  | 2.36     | 0.11                | 2.33       |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 20                  | 2.36     | 0.11                | 2.33       |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 20                  | 2.36     | 0.11                | 2.33       |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 20                  | 2.36     | 0.11                | 2.33       |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 20                  | 2.36     | 0.36                | 2.43       |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 20                  | 2.36     | 0.36                | 2.43       |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 20                  | 2.36     | 0.11                | 2.34       |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 20                  | 2.36     | 0.23                | 2.45       |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 20                  | 2.35     | 0.01                | 2.35       |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 20                  | 2.35     | 0.09                | 2.34       |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 20                  | 2.35     | 0.09                | 2.34       |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 20                  | 2.35     | 0.02                | 2.34       |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 20                  | 2.35     | 0.49                | 2.34       |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 20                  | 2.34     | 0.2                 | 2.36       |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 20                  | 2.33     | 0.07                | 2.35       |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 20                  | 2.31     | 0.1                 | 2.33       |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 20                  | 2.31     | 0.1                 | 2.33       |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 20                  | 2.31     | 0.09                | 2.27       |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 20                  | 2.3      | 0.04                | 2.29       |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 20                  | 2.3      | 0.04                | 2.29       |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG  | 20                  | 2.3      | 0.74                | 1.76       |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 20                  | 2.29     | 0.02                | 2.29       |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 20                  | 2.29     | 0.02                | 2.29       |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 20                  | 2.29     | 0.08                | 2.24       |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 20                  | 2.29     | 0.08                | 2.24       |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 20                  | 2.27     | 0.07                | 2.28       |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 20                  | 2.27     | 0.07                | 2.28       |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 20                  | 2.27     | 0.17                | 2.15       |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 20                  | 2.27     | 0.44                | 2.48       |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 20                  | 2.27     | 0.44                | 2.48       |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 20                  | 2.26     | 0.01                | 2.27       |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 20                  | 2.26     | 0.78                | 2.11       |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 20                  | 2.26     | 0.29                | 2.09       |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2 | 20                  | 2.26     | 0.29                | 2.09       |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 20                  | 2.25     | 0.07                | 2.24       |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 20                  | 2.24     | 0.25                | 2.22       |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 20                  | 2.24     | 0.25                | 2.22       |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 20                  | 2.24     | 0.25                | 2.22       |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 20                  | 2.24     | 0.25                | 2.22       |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 20                  | 2.24     | 0.12                | 2.2        |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 20                  | 2.24     | 0.12                | 2.2        |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 20                  | 2.23     | 0.19                | 2.22       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H    | 20                  | 2.23     | 0.19                | 2.22       |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3  | 20                  | 2.23     | 0.14                | 2.26       |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 20                  | 2.2      | 0.74                | 2.45       |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 20                  | 2.2      | 0.74                | 2.45       |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 20                  | 2.2      | 0.17                | 2.22       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 20                  | 2.2      | 0.3                 | 2.24       |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H    | 20                  | 2.2      | 0.01                | 2.2        |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 20                  | 2.19     | 0.02                | 2.19       |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2  | 20                  | 2.19     | 0.23                | 2.08       |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3  | 20                  | 2.19     | 0.23                | 2.08       |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3  | 20                  | 2.19     | 0.21                | 2.06       |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 20                  | 2.19     | 0.84                | 2.2        |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 20                  | 2.19     | 0.84                | 2.2        |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 20                  | 2.19     | 0.84                | 2.2        |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 20                  | 2.19     | 0.84                | 2.2        |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1  | 20                  | 2.19     | 0.01                | 2.18       |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H     | 20                  | 2.18     | 0.26                | 2.12       |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H     | 20                  | 2.18     | 0.26                | 2.12       |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H    | 20                  | 2.18     | 0.28                | 2.34       |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2  | 20                  | 2.16     | 0.17                | 2.13       |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3  | 20                  | 2.16     | 0.17                | 2.13       |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3  | 20                  | 2.16     | 0.15                | 2.12       |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 20                  | 2.15     | 0.94                | 2.54       |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H     | 20                  | 2.15     | 0.17                | 2.22       |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2   | 20                  | 2.15     | 0.02                | 2.15       |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA   | 20                  | 2.15     | 0.09                | 2.1        |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2  | 20                  | 2.14     | 0.01                | 2.14       |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 20                  | 2.14     | 0.12                | 2.1        |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 20                  | 2.14     | 0.12                | 2.1        |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 20                  | 2.14     | 0.08                | 2.17       |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 20                  | 2.14     | 0.08                | 2.17       |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2  | 20                  | 2.13     | 0.02                | 2.13       |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2  | 20                  | 2.13     | 0.02                | 2.13       |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3  | 20                  | 2.13     | 0.02                | 2.13       |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3  | 20                  | 2.13     | 0.02                | 2.13       |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1  | 20                  | 2.12     | 0.09                | 2.15       |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2  | 20                  | 2.12     | 0.09                | 2.15       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4011) | 1:A:21:SER:H    | 1:A:22:GLN:HA   | 20                  | 2.11     | 0.0                 | 2.11       |
| (1,3743) | 1:A:18:LEU:HG   | 1:A:27:GLY:HA2  | 20                  | 2.1      | 0.22                | 2.16       |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1  | 20                  | 2.09     | 0.04                | 2.08       |
| (1,1767) | 1:A:6:GLN:HG3   | 1:A:26:CYS:H    | 20                  | 2.09     | 0.18                | 1.97       |
| (1,957)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HH2  | 20                  | 2.09     | 0.23                | 2.1        |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H    | 20                  | 2.08     | 0.05                | 2.08       |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3   | 20                  | 2.07     | 0.11                | 2.05       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 20                  | 2.07     | 0.54                | 1.72       |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H    | 20                  | 2.07     | 0.06                | 2.07       |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H    | 20                  | 2.07     | 0.06                | 2.07       |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 20                  | 2.07     | 0.19                | 2.16       |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 20                  | 2.07     | 0.19                | 2.16       |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB2   | 20                  | 2.07     | 0.23                | 1.96       |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB3   | 20                  | 2.07     | 0.23                | 1.96       |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H    | 20                  | 2.06     | 0.07                | 2.04       |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 20                  | 2.06     | 0.01                | 2.05       |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA   | 20                  | 2.05     | 0.82                | 1.73       |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 20                  | 2.03     | 0.07                | 2.0        |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3   | 20                  | 2.02     | 0.0                 | 2.02       |
| (1,1180) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HA    | 20                  | 2.01     | 0.27                | 1.88       |
| (1,4894) | 1:A:31:LYS:HB3  | 1:A:33:CYS:H    | 20                  | 2.01     | 0.29                | 1.83       |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1  | 20                  | 2.0      | 0.11                | 2.05       |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2  | 20                  | 2.0      | 0.11                | 2.05       |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3  | 20                  | 1.97     | 0.18                | 2.05       |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3  | 20                  | 1.97     | 0.18                | 2.05       |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3  | 20                  | 1.97     | 0.18                | 2.05       |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB1  | 20                  | 1.96     | 0.59                | 2.32       |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB2  | 20                  | 1.96     | 0.59                | 2.32       |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB3  | 20                  | 1.96     | 0.59                | 2.32       |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 20                  | 1.96     | 0.01                | 1.96       |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 20                  | 1.95     | 0.07                | 1.98       |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 20                  | 1.95     | 0.07                | 1.98       |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2  | 20                  | 1.95     | 0.03                | 1.95       |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2  | 20                  | 1.94     | 0.11                | 1.9        |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2  | 20                  | 1.94     | 0.08                | 1.92       |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3  | 20                  | 1.93     | 0.13                | 1.92       |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2  | 20                  | 1.92     | 0.27                | 1.92       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3 | 20                  | 1.92     | 0.27                | 1.92       |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H   | 20                  | 1.91     | 0.15                | 1.92       |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 20                  | 1.91     | 0.02                | 1.9        |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 20                  | 1.91     | 0.11                | 1.88       |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 20                  | 1.91     | 0.11                | 1.88       |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 20                  | 1.91     | 0.08                | 1.89       |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 20                  | 1.9      | 0.03                | 1.9        |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 20                  | 1.9      | 0.16                | 1.88       |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 20                  | 1.89     | 0.15                | 1.88       |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 20                  | 1.89     | 0.15                | 1.88       |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 20                  | 1.89     | 0.2                 | 1.87       |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 20                  | 1.89     | 0.9                 | 2.21       |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 20                  | 1.88     | 0.03                | 1.87       |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 20                  | 1.88     | 0.03                | 1.87       |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 20                  | 1.88     | 0.0                 | 1.88       |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 20                  | 1.87     | 0.7                 | 2.11       |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 20                  | 1.87     | 0.7                 | 2.11       |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 20                  | 1.84     | 0.44                | 2.12       |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 20                  | 1.83     | 0.18                | 1.9        |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 20                  | 1.83     | 0.18                | 1.9        |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H   | 20                  | 1.83     | 0.01                | 1.83       |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H   | 20                  | 1.83     | 0.01                | 1.83       |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 20                  | 1.78     | 0.03                | 1.78       |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 20                  | 1.78     | 0.03                | 1.78       |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 20                  | 1.78     | 0.52                | 2.18       |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 20                  | 1.78     | 0.49                | 1.77       |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 20                  | 1.78     | 0.49                | 1.77       |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 20                  | 1.77     | 0.03                | 1.78       |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 20                  | 1.76     | 0.82                | 1.41       |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 20                  | 1.76     | 0.12                | 1.78       |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 20                  | 1.76     | 0.12                | 1.78       |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 20                  | 1.76     | 0.1                 | 1.77       |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 20                  | 1.73     | 0.02                | 1.72       |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2 | 20                  | 1.73     | 0.12                | 1.7        |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3 | 20                  | 1.73     | 0.12                | 1.7        |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 20                  | 1.72     | 0.85                | 1.38       |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 20                  | 1.72     | 0.85                | 1.38       |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H   | 20                  | 1.72     | 0.2                 | 1.59       |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 20                  | 1.72     | 0.09                | 1.76       |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 20                  | 1.72     | 0.09                | 1.76       |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 20                  | 1.71     | 0.17                | 1.82       |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 20                  | 1.71     | 0.04                | 1.71       |

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| Key      | Atom-1          | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3 | 20                  | 1.71     | 0.04                | 1.71       |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2 | 20                  | 1.71     | 0.04                | 1.69       |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 20                  | 1.71     | 0.04                | 1.69       |
| (1,1120) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HA   | 20                  | 1.7      | 0.19                | 1.82       |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 20                  | 1.69     | 0.01                | 1.69       |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1 | 20                  | 1.69     | 0.48                | 1.51       |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2 | 20                  | 1.69     | 0.48                | 1.51       |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 20                  | 1.69     | 0.09                | 1.67       |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 20                  | 1.69     | 0.31                | 1.72       |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 20                  | 1.69     | 0.31                | 1.72       |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 20                  | 1.67     | 0.14                | 1.7        |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1 | 20                  | 1.66     | 0.52                | 1.39       |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2 | 20                  | 1.66     | 0.52                | 1.39       |
| (1,4821) | 1:A:30:PRO:HG2  | 1:A:32:TYR:H   | 20                  | 1.65     | 0.02                | 1.65       |
| (1,4821) | 1:A:30:PRO:HG3  | 1:A:32:TYR:H   | 20                  | 1.65     | 0.02                | 1.65       |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 20                  | 1.65     | 0.09                | 1.63       |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2 | 20                  | 1.64     | 0.01                | 1.64       |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3 | 20                  | 1.64     | 0.01                | 1.64       |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 20                  | 1.63     | 0.06                | 1.6        |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 20                  | 1.63     | 0.13                | 1.62       |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 20                  | 1.63     | 0.13                | 1.62       |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 20                  | 1.63     | 0.17                | 1.61       |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 20                  | 1.63     | 0.17                | 1.61       |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 20                  | 1.63     | 0.63                | 1.94       |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 20                  | 1.63     | 0.63                | 1.94       |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 20                  | 1.62     | 0.13                | 1.64       |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2 | 20                  | 1.62     | 0.08                | 1.62       |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3 | 20                  | 1.62     | 0.08                | 1.62       |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1 | 20                  | 1.62     | 0.22                | 1.67       |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2 | 20                  | 1.62     | 0.22                | 1.67       |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2 | 20                  | 1.61     | 0.59                | 1.21       |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3 | 20                  | 1.61     | 0.59                | 1.21       |
| (1,885)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:H    | 20                  | 1.6      | 0.0                 | 1.6        |
| (1,885)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:H    | 20                  | 1.6      | 0.0                 | 1.6        |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 20                  | 1.6      | 0.07                | 1.58       |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 20                  | 1.6      | 0.07                | 1.58       |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 20                  | 1.58     | 0.05                | 1.58       |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 20                  | 1.58     | 0.05                | 1.58       |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA2 | 20                  | 1.58     | 1.09                | 1.04       |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA3 | 20                  | 1.58     | 1.09                | 1.04       |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 20                  | 1.58     | 0.14                | 1.62       |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 20                  | 1.58     | 0.14                | 1.62       |

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| Key      | Atom-1          | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 20                  | 1.58     | 0.14                | 1.62       |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 20                  | 1.58     | 0.14                | 1.62       |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 20                  | 1.58     | 0.14                | 1.62       |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 20                  | 1.58     | 0.14                | 1.62       |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1  | 20                  | 1.58     | 0.21                | 1.62       |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H    | 20                  | 1.57     | 0.35                | 1.55       |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG   | 20                  | 1.57     | 0.24                | 1.58       |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 20                  | 1.56     | 0.19                | 1.54       |
| (1,2021) | 1:A:8:GLY:H     | 1:A:9:PRO:HA    | 20                  | 1.56     | 0.0                 | 1.56       |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1  | 20                  | 1.56     | 0.04                | 1.54       |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1  | 20                  | 1.56     | 0.04                | 1.54       |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H    | 20                  | 1.56     | 0.26                | 1.62       |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H    | 20                  | 1.56     | 0.26                | 1.62       |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21  | 20                  | 1.55     | 0.04                | 1.54       |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21  | 20                  | 1.55     | 0.04                | 1.54       |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2  | 20                  | 1.55     | 0.06                | 1.56       |
| (1,4799) | 1:A:30:PRO:HB2  | 1:A:32:TYR:H    | 20                  | 1.55     | 0.01                | 1.55       |
| (1,4606) | 1:A:26:CYS:H    | 1:A:27:GLY:HA2  | 20                  | 1.54     | 0.01                | 1.54       |
| (1,4606) | 1:A:26:CYS:H    | 1:A:27:GLY:HA3  | 20                  | 1.54     | 0.01                | 1.54       |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H    | 20                  | 1.53     | 0.07                | 1.54       |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H    | 20                  | 1.5      | 0.03                | 1.5        |
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1  | 20                  | 1.49     | 0.25                | 1.42       |
| (1,4941) | 1:A:34:ALA:HB1  | 1:A:35:HIS:HB3  | 20                  | 1.49     | 0.58                | 1.68       |
| (1,4941) | 1:A:34:ALA:HB2  | 1:A:35:HIS:HB3  | 20                  | 1.49     | 0.58                | 1.68       |
| (1,4941) | 1:A:34:ALA:HB3  | 1:A:35:HIS:HB3  | 20                  | 1.49     | 0.58                | 1.68       |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 20                  | 1.49     | 0.22                | 1.54       |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 20                  | 1.49     | 0.22                | 1.54       |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H    | 20                  | 1.48     | 0.0                 | 1.48       |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3   | 20                  | 1.47     | 0.2                 | 1.56       |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1  | 20                  | 1.46     | 0.19                | 1.46       |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2  | 20                  | 1.46     | 0.19                | 1.46       |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H     | 20                  | 1.45     | 0.06                | 1.46       |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA    | 20                  | 1.45     | 0.15                | 1.5        |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H    | 20                  | 1.45     | 0.26                | 1.42       |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 20                  | 1.45     | 0.64                | 1.48       |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 20                  | 1.45     | 0.64                | 1.48       |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2  | 20                  | 1.44     | 0.13                | 1.4        |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA    | 20                  | 1.41     | 0.03                | 1.43       |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2   | 20                  | 1.4      | 0.05                | 1.41       |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3   | 20                  | 1.4      | 0.05                | 1.41       |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H    | 20                  | 1.4      | 0.07                | 1.42       |
| (1,2077) | 1:A:8:GLY:HA2   | 1:A:9:PRO:HB2   | 20                  | 1.4      | 0.0                 | 1.4        |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3   | 20                  | 1.4      | 0.0                 | 1.4        |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 20                  | 1.39     | 0.65                | 1.0        |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 20                  | 1.38     | 0.51                | 1.4        |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 20                  | 1.38     | 0.51                | 1.4        |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 20                  | 1.38     | 0.0                 | 1.38       |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 20                  | 1.38     | 0.0                 | 1.38       |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 20                  | 1.38     | 0.2                 | 1.48       |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 20                  | 1.37     | 0.03                | 1.38       |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2  | 20                  | 1.37     | 0.12                | 1.35       |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 20                  | 1.36     | 0.09                | 1.4        |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 20                  | 1.35     | 0.11                | 1.37       |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 20                  | 1.35     | 0.11                | 1.37       |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 20                  | 1.32     | 0.01                | 1.32       |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2   | 20                  | 1.31     | 0.48                | 1.58       |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3   | 20                  | 1.31     | 0.48                | 1.58       |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 20                  | 1.31     | 0.0                 | 1.31       |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 20                  | 1.31     | 0.0                 | 1.31       |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 20                  | 1.3      | 0.26                | 1.25       |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 20                  | 1.3      | 0.26                | 1.25       |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 20                  | 1.3      | 0.26                | 1.25       |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 20                  | 1.3      | 0.13                | 1.23       |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 20                  | 1.29     | 0.01                | 1.28       |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 20                  | 1.27     | 0.16                | 1.28       |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 20                  | 1.27     | 0.16                | 1.28       |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 20                  | 1.27     | 0.0                 | 1.27       |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22  | 20                  | 1.26     | 0.7                 | 1.75       |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 20                  | 1.25     | 0.23                | 1.19       |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 20                  | 1.25     | 0.02                | 1.25       |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1  | 20                  | 1.24     | 0.2                 | 1.16       |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2  | 20                  | 1.24     | 0.2                 | 1.16       |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3  | 20                  | 1.24     | 0.2                 | 1.16       |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 20                  | 1.23     | 0.41                | 1.43       |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 20                  | 1.23     | 0.41                | 1.43       |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 20                  | 1.22     | 0.53                | 0.96       |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 20                  | 1.21     | 0.06                | 1.19       |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 20                  | 1.21     | 0.06                | 1.19       |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 20                  | 1.21     | 0.14                | 1.18       |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 20                  | 1.19     | 0.01                | 1.19       |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 20                  | 1.19     | 0.01                | 1.19       |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 20                  | 1.19     | 0.03                | 1.18       |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 20                  | 1.19     | 0.03                | 1.18       |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 20                  | 1.19     | 0.46                | 1.22       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 20                  | 1.19     | 0.46                | 1.22       |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 20                  | 1.18     | 0.01                | 1.17       |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 20                  | 1.18     | 0.1                 | 1.18       |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 20                  | 1.16     | 0.0                 | 1.16       |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H    | 20                  | 1.15     | 0.02                | 1.14       |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 20                  | 1.14     | 0.11                | 1.11       |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 20                  | 1.13     | 0.03                | 1.12       |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 20                  | 1.11     | 0.15                | 1.02       |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 20                  | 1.11     | 0.15                | 1.02       |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 20                  | 1.11     | 0.0                 | 1.11       |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 20                  | 1.1      | 0.08                | 1.12       |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 20                  | 1.1      | 0.08                | 1.12       |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 20                  | 1.1      | 0.12                | 1.1        |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 20                  | 1.07     | 0.34                | 1.23       |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2  | 20                  | 1.07     | 0.01                | 1.07       |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 20                  | 1.04     | 0.04                | 1.04       |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 20                  | 1.02     | 0.06                | 0.99       |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 20                  | 1.02     | 0.06                | 0.99       |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 20                  | 1.02     | 0.01                | 1.02       |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 20                  | 1.02     | 0.12                | 1.02       |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 20                  | 1.01     | 0.04                | 1.0        |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 20                  | 0.99     | 0.71                | 0.84       |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 20                  | 0.99     | 0.71                | 0.84       |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2  | 20                  | 0.98     | 0.06                | 0.95       |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3  | 20                  | 0.98     | 0.06                | 0.95       |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 20                  | 0.97     | 0.09                | 1.0        |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 20                  | 0.97     | 0.09                | 1.0        |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 20                  | 0.96     | 0.03                | 0.95       |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 20                  | 0.96     | 0.05                | 0.97       |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 20                  | 0.95     | 0.13                | 0.94       |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 20                  | 0.95     | 0.13                | 0.94       |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 20                  | 0.95     | 0.13                | 0.94       |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 20                  | 0.95     | 0.01                | 0.95       |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2  | 20                  | 0.95     | 0.0                 | 0.95       |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3  | 20                  | 0.95     | 0.0                 | 0.95       |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3  | 20                  | 0.94     | 0.01                | 0.94       |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 20                  | 0.94     | 0.04                | 0.94       |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 20                  | 0.93     | 0.26                | 0.99       |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 20                  | 0.93     | 0.26                | 0.99       |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 20                  | 0.93     | 0.07                | 0.91       |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 20                  | 0.92     | 0.08                | 0.94       |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 20                  | 0.91     | 0.0                 | 0.91       |

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| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3 | 20                  | 0.91     | 0.07                | 0.91       |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H   | 20                  | 0.91     | 0.01                | 0.91       |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 20                  | 0.89     | 0.07                | 0.92       |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 20                  | 0.89     | 0.07                | 0.92       |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3 | 20                  | 0.87     | 0.01                | 0.87       |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 20                  | 0.85     | 0.11                | 0.89       |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H   | 20                  | 0.85     | 0.01                | 0.85       |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3 | 20                  | 0.83     | 0.01                | 0.83       |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H   | 20                  | 0.81     | 0.0                 | 0.81       |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2 | 20                  | 0.81     | 0.07                | 0.77       |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 20                  | 0.78     | 0.01                | 0.78       |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H   | 20                  | 0.78     | 0.03                | 0.79       |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 20                  | 0.76     | 0.01                | 0.76       |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 20                  | 0.76     | 0.24                | 0.75       |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 20                  | 0.76     | 0.24                | 0.75       |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 20                  | 0.76     | 0.24                | 0.75       |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 20                  | 0.76     | 0.24                | 0.75       |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2 | 20                  | 0.75     | 0.0                 | 0.75       |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21 | 20                  | 0.75     | 0.17                | 0.74       |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22 | 20                  | 0.75     | 0.17                | 0.74       |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H   | 20                  | 0.74     | 0.09                | 0.76       |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2  | 20                  | 0.74     | 0.06                | 0.74       |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3  | 20                  | 0.74     | 0.06                | 0.74       |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 20                  | 0.74     | 0.16                | 0.68       |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H    | 20                  | 0.72     | 0.0                 | 0.72       |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1 | 20                  | 0.72     | 0.05                | 0.7        |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 20                  | 0.69     | 0.09                | 0.68       |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3  | 20                  | 0.66     | 0.23                | 0.75       |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 20                  | 0.65     | 0.03                | 0.64       |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 20                  | 0.65     | 0.06                | 0.64       |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 20                  | 0.64     | 0.02                | 0.64       |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 20                  | 0.64     | 0.02                | 0.64       |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 20                  | 0.63     | 0.05                | 0.63       |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 20                  | 0.59     | 0.01                | 0.59       |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3 | 20                  | 0.59     | 0.11                | 0.64       |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 20                  | 0.57     | 0.01                | 0.57       |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 20                  | 0.55     | 0.07                | 0.5        |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 20                  | 0.55     | 0.01                | 0.54       |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 20                  | 0.54     | 0.01                | 0.54       |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H   | 20                  | 0.52     | 0.0                 | 0.52       |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 20                  | 0.45     | 0.04                | 0.46       |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 20                  | 0.45     | 0.01                | 0.45       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 20                  | 0.44     | 0.02                | 0.43       |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3   | 20                  | 0.42     | 0.0                 | 0.42       |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 20                  | 0.41     | 0.1                 | 0.37       |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 20                  | 0.41     | 0.1                 | 0.37       |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3  | 20                  | 0.4      | 0.0                 | 0.4        |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 20                  | 0.39     | 0.01                | 0.39       |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 20                  | 0.37     | 0.01                | 0.36       |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 20                  | 0.36     | 0.12                | 0.4        |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H    | 20                  | 0.35     | 0.0                 | 0.35       |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 20                  | 0.35     | 0.01                | 0.35       |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 20                  | 0.31     | 0.02                | 0.31       |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 20                  | 0.31     | 0.02                | 0.31       |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 20                  | 0.29     | 0.0                 | 0.29       |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 20                  | 0.29     | 0.04                | 0.27       |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 20                  | 0.27     | 0.0                 | 0.27       |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3   | 20                  | 0.25     | 0.0                 | 0.25       |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3  | 20                  | 0.24     | 0.0                 | 0.24       |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 20                  | 0.24     | 0.05                | 0.22       |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 20                  | 0.24     | 0.05                | 0.22       |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2  | 20                  | 0.21     | 0.0                 | 0.21       |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2  | 20                  | 0.19     | 0.0                 | 0.19       |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2  | 20                  | 0.19     | 0.0                 | 0.19       |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 20                  | 0.16     | 0.02                | 0.16       |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 19                  | 8.82     | 2.55                | 8.85       |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 19                  | 7.93     | 4.95                | 6.2        |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 19                  | 7.34     | 1.73                | 7.16       |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 19                  | 3.65     | 1.04                | 3.48       |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 19                  | 3.65     | 1.04                | 3.48       |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2  | 19                  | 2.86     | 0.96                | 2.97       |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3  | 19                  | 2.86     | 0.96                | 2.97       |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1  | 19                  | 2.37     | 1.24                | 2.18       |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2  | 19                  | 2.37     | 1.24                | 2.18       |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3  | 19                  | 2.37     | 1.24                | 2.18       |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 19                  | 2.24     | 1.15                | 2.15       |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2  | 19                  | 1.54     | 0.82                | 2.09       |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3  | 19                  | 1.54     | 0.82                | 2.09       |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 19                  | 0.95     | 0.46                | 0.82       |

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| Key      | Atom-1         | Atom-2          | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 19                  | 0.89     | 0.31                | 0.89       |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 19                  | 0.61     | 0.36                | 0.87       |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 19                  | 0.47     | 0.22                | 0.38       |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21  | 19                  | 0.41     | 0.11                | 0.41       |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 19                  | 0.15     | 0.03                | 0.13       |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H    | 18                  | 3.01     | 1.63                | 4.08       |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 18                  | 0.88     | 0.32                | 0.92       |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 17                  | 1.12     | 0.45                | 1.17       |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 17                  | 1.12     | 0.45                | 1.17       |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 17                  | 1.02     | 0.57                | 0.87       |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 17                  | 1.02     | 0.57                | 0.87       |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 17                  | 0.63     | 0.33                | 0.58       |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 17                  | 0.38     | 0.17                | 0.35       |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 17                  | 0.38     | 0.17                | 0.35       |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 17                  | 0.11     | 0.0                 | 0.11       |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1  | 16                  | 1.28     | 0.88                | 1.4        |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2  | 16                  | 1.28     | 0.88                | 1.4        |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 16                  | 0.51     | 0.18                | 0.52       |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 14                  | 0.7      | 0.39                | 0.57       |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 14                  | 0.7      | 0.39                | 0.57       |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 14                  | 0.31     | 0.04                | 0.3        |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 13                  | 1.03     | 0.03                | 1.05       |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 13                  | 0.74     | 0.02                | 0.74       |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 13                  | 0.74     | 0.02                | 0.74       |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 13                  | 0.63     | 0.32                | 0.57       |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 13                  | 0.63     | 0.32                | 0.57       |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 13                  | 0.53     | 0.14                | 0.61       |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 13                  | 0.45     | 0.08                | 0.44       |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1  | 13                  | 0.3      | 0.13                | 0.21       |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2  | 13                  | 0.3      | 0.13                | 0.21       |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H     | 13                  | 0.19     | 0.01                | 0.19       |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 13                  | 0.19     | 0.04                | 0.18       |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 13                  | 0.18     | 0.01                | 0.17       |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 11                  | 0.36     | 0.15                | 0.37       |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1  | 10                  | 0.4      | 0.15                | 0.38       |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2  | 10                  | 0.4      | 0.15                | 0.38       |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 10                  | 0.4      | 0.15                | 0.38       |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1  | 10                  | 0.4      | 0.16                | 0.39       |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2  | 10                  | 0.4      | 0.16                | 0.39       |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3  | 10                  | 0.4      | 0.16                | 0.39       |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3   | 8                   | 0.28     | 0.22                | 0.22       |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3   | 8                   | 0.28     | 0.22                | 0.22       |

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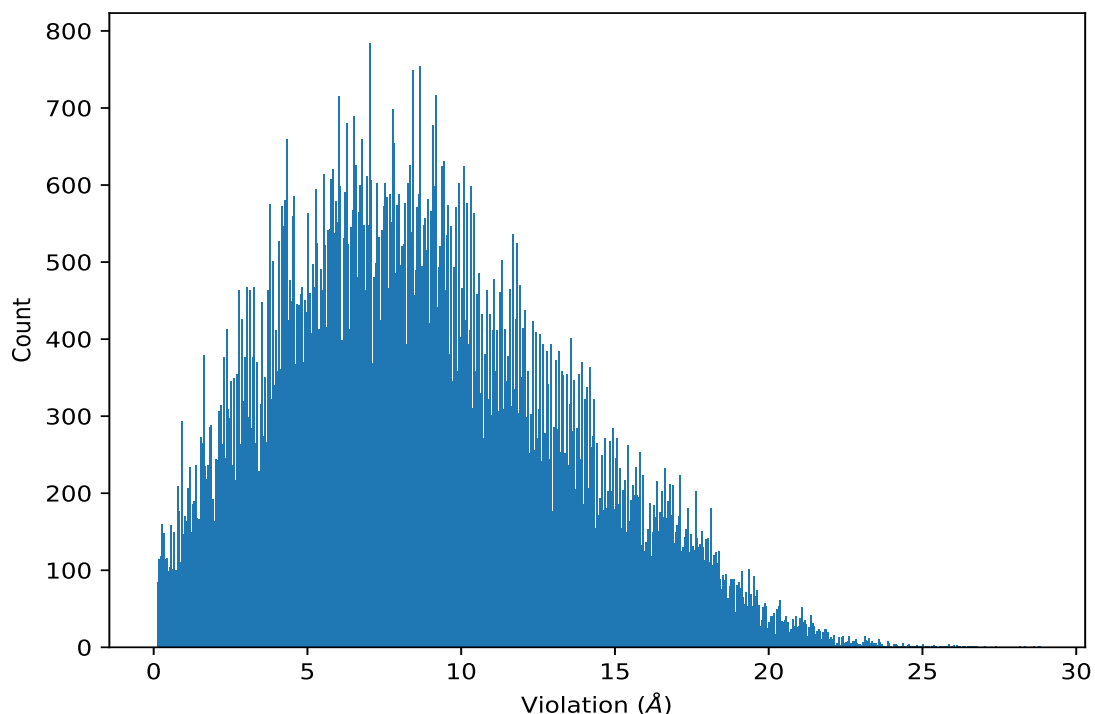
| Key      | Atom-1         | Atom-2         | Models <sup>1</sup> | Mean (Å) | SD <sup>1</sup> (Å) | Median (Å) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 8                   | 0.25     | 0.0                 | 0.25       |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 7                   | 0.28     | 0.11                | 0.25       |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 5                   | 0.18     | 0.02                | 0.19       |
| (1,1122) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HG3  | 4                   | 0.2      | 0.03                | 0.22       |
| (1,450)  | 1:A:21:SER:HG  | 1:A:23:TYR:HB3 | 3                   | 0.17     | 0.0                 | 0.17       |

<sup>1</sup>Number of violated models, <sup>2</sup>Standard deviation

## 9.5 All violated distance restraints [i](#)

### 9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



### 9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 14       | 28.84         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 14       | 28.79         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 14       | 28.64         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 14       | 28.34         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 14       | 28.17         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 14       | 27.39         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 15       | 27.03         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 14       | 26.79         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 15       | 26.75         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 15       | 26.71         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 14       | 26.66         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 4        | 26.62         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 15       | 26.55         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 8        | 26.5          |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 14       | 26.49         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 15       | 26.39         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 2        | 26.32         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 15       | 26.23         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 14       | 26.18         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 15       | 26.13         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 4        | 26.11         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 8        | 26.1          |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 4        | 26.0          |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 8        | 26.0          |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 8        | 26.0          |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 4        | 25.97         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 15       | 25.9          |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 14       | 25.88         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 14       | 25.88         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 2        | 25.86         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 2        | 25.83         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 4        | 25.79         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 14       | 25.74         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 14       | 25.7          |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 8        | 25.68         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 4        | 25.6          |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 8        | 25.6          |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 4        | 25.58         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 4        | 25.58         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 4        | 25.42         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 10       | 25.4          |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 14       | 25.37         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 7        | 25.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 2        | 25.34         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 15       | 25.33         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 2        | 25.21         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 2        | 25.16         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 14       | 25.15         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 10       | 25.04         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 10       | 25.01         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 14       | 25.0          |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 15       | 25.0          |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 4        | 24.98         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 4        | 24.96         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 10       | 24.94         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 14       | 24.94         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 15       | 24.89         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 14       | 24.89         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 14       | 24.84         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 4        | 24.83         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 4        | 24.82         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 10       | 24.76         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 18       | 24.76         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 10       | 24.74         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 10       | 24.72         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 10       | 24.68         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 14       | 24.66         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 15       | 24.65         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 8        | 24.6          |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 15       | 24.59         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 4        | 24.58         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 4        | 24.56         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 7        | 24.55         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 10       | 24.54         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 10       | 24.52         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 4        | 24.52         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 15       | 24.47         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 10       | 24.46         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 18       | 24.42         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 4        | 24.39         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 4        | 24.38         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 15       | 24.38         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 13       | 24.36         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 10       | 24.35         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 12       | 24.33         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 14       | 24.3          |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 4        | 24.27         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 6        | 24.24         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 15       | 24.24         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 15       | 24.2          |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 14       | 24.19         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 14       | 24.16         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 15       | 24.14         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 15       | 24.14         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 2        | 24.12         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 2        | 24.1          |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 14       | 24.09         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 10       | 24.08         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 12       | 24.07         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 15       | 24.07         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 6        | 23.96         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 2        | 23.95         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 8        | 23.95         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 14       | 23.95         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 5        | 23.93         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 15       | 23.93         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 15       | 23.88         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 18       | 23.88         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 15       | 23.87         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 15       | 23.87         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 8        | 23.87         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 12       | 23.87         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 12       | 23.86         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 3        | 23.86         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 4        | 23.81         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 15       | 23.8          |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 8        | 23.79         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 18       | 23.72         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 8        | 23.68         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 12       | 23.67         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 16       | 23.66         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 14       | 23.66         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 9        | 23.65         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 8        | 23.64         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 8        | 23.63         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 4        | 23.63         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 10       | 23.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 15       | 23.61         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 13       | 23.6          |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 8        | 23.58         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 8        | 23.58         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 3        | 23.58         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 12       | 23.58         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 8        | 23.58         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 10       | 23.57         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 8        | 23.56         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 11       | 23.56         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 14       | 23.56         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 1        | 23.55         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 6        | 23.55         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 5        | 23.54         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 5        | 23.52         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 13       | 23.51         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 7        | 23.49         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 8        | 23.48         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 2        | 23.48         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 4        | 23.47         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 9        | 23.47         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 7        | 23.46         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 6        | 23.45         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 8        | 23.44         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 4        | 23.42         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 4        | 23.42         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 16       | 23.41         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 2        | 23.39         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 20       | 23.37         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 3        | 23.36         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 16       | 23.36         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 18       | 23.36         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 14       | 23.36         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 15       | 23.36         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 19       | 23.35         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 12       | 23.32         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 10       | 23.32         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 15       | 23.31         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 8        | 23.3          |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 10       | 23.3          |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 13       | 23.28         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 7        | 23.28         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 2        | 23.27         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 2        | 23.27         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 8        | 23.27         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 2        | 23.27         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 3        | 23.26         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 7        | 23.26         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 11       | 23.26         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 14       | 23.26         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 1        | 23.25         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 14       | 23.25         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 6        | 23.24         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 8        | 23.24         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 15       | 23.24         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 16       | 23.23         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 8        | 23.23         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 17       | 23.21         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 5        | 23.21         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 9        | 23.21         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 2        | 23.2          |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 4        | 23.19         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 4        | 23.19         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 16       | 23.19         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 2        | 23.19         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 15       | 23.19         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 14       | 23.18         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 15       | 23.17         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 4        | 23.16         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 7        | 23.15         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 4        | 23.15         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 14       | 23.14         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 3        | 23.13         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 2        | 23.13         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 16       | 23.13         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 18       | 23.13         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 20       | 23.13         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 6        | 23.12         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 4        | 23.12         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 19       | 23.12         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 15       | 23.12         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 17       | 23.12         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 12       | 23.11         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 7        | 23.09         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 9        | 23.08         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 4        | 23.08         |
| (1,2511) | 1:A:10:GLY:HA2 | 1:A:30:PRO:HB2 | 17       | 23.08         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 2        | 23.06         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 5        | 23.06         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 13       | 23.05         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 13       | 23.03         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 14       | 23.03         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 18       | 23.02         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 10       | 22.99         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 6        | 22.99         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 14       | 22.97         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 15       | 22.97         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 3        | 22.95         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 13       | 22.93         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 7        | 22.92         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 17       | 22.91         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 17       | 22.9          |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 13       | 22.89         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 6        | 22.87         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 2        | 22.86         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 14       | 22.86         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 4        | 22.85         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 14       | 22.83         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 13       | 22.83         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 7        | 22.82         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 7        | 22.82         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 1        | 22.82         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 12       | 22.82         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 10       | 22.81         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 12       | 22.81         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 11       | 22.81         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 12       | 22.8          |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 10       | 22.8          |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 15       | 22.79         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 15       | 22.79         |
| (1,2561) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HB2 | 17       | 22.78         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 4        | 22.78         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 8        | 22.78         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 8        | 22.77         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 9        | 22.76         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 5        | 22.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 4        | 22.74         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 8        | 22.74         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 15       | 22.73         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 14       | 22.73         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 1        | 22.72         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 10       | 22.72         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 12       | 22.71         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 2        | 22.71         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 2        | 22.7          |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 10       | 22.7          |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 7        | 22.69         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 11       | 22.66         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 10       | 22.66         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 13       | 22.66         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 2        | 22.65         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 10       | 22.65         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 10       | 22.65         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 6        | 22.65         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 2        | 22.65         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 8        | 22.65         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 8        | 22.64         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 7        | 22.62         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 9        | 22.62         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 2        | 22.62         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 20       | 22.61         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 10       | 22.61         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 10       | 22.61         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 10       | 22.6          |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 16       | 22.6          |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 5        | 22.58         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 18       | 22.58         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 20       | 22.57         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 8        | 22.56         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 18       | 22.56         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 11       | 22.55         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 16       | 22.55         |
| (1,1036) | 1:A:3:PRO:HD3  | 1:A:30:PRO:HB2 | 19       | 22.55         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 20       | 22.54         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 15       | 22.54         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 14       | 22.54         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 6        | 22.52         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 18       | 22.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 19       | 22.5          |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 20       | 22.5          |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 12       | 22.49         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 10       | 22.49         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 16       | 22.48         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 7        | 22.48         |
| (1,2925) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HD3 | 16       | 22.47         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 4        | 22.47         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 3        | 22.45         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 12       | 22.45         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 16       | 22.45         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 10       | 22.44         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 10       | 22.44         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 16       | 22.44         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 17       | 22.43         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 2        | 22.43         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 14       | 22.42         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 14       | 22.42         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 10       | 22.42         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 10       | 22.41         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 4        | 22.41         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 8        | 22.41         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 17       | 22.39         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 13       | 22.38         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 12       | 22.38         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 14       | 22.38         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 4        | 22.38         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 9        | 22.38         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 20       | 22.38         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 5        | 22.37         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 11       | 22.37         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 4        | 22.36         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 2        | 22.36         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 15       | 22.36         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 17       | 22.36         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 19       | 22.34         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 14       | 22.32         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 8        | 22.3          |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 15       | 22.29         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 2        | 22.29         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 16       | 22.29         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 3        | 22.29         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 14       | 22.28         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 14       | 22.28         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 4        | 22.28         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 13       | 22.28         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 18       | 22.28         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 8        | 22.26         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 7        | 22.26         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 13       | 22.26         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 2        | 22.25         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 2        | 22.23         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 15       | 22.22         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 12       | 22.22         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 4        | 22.21         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 7        | 22.21         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 8        | 22.18         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 2        | 22.17         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 7        | 22.16         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 14       | 22.15         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 15       | 22.15         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 18       | 22.15         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 4        | 22.15         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 16       | 22.15         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 8        | 22.14         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 20       | 22.12         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 11       | 22.11         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 12       | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 9        | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 12       | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 16       | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 18       | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 19       | 22.11         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 4        | 22.11         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 15       | 22.1          |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 3        | 22.08         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 10       | 22.08         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 13       | 22.07         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 12       | 22.06         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 12       | 22.06         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 12       | 22.05         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 8        | 22.05         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 13       | 22.05         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 15       | 22.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 20       | 22.05         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 13       | 22.05         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 6        | 22.04         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 11       | 22.04         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 2        | 22.03         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 10       | 22.03         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 14       | 22.03         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 14       | 22.02         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 4        | 22.02         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 4        | 22.02         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 13       | 22.02         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 12       | 22.02         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 12       | 22.01         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 1        | 22.01         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 6        | 22.0          |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 3        | 21.99         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 11       | 21.98         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 13       | 21.98         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 15       | 21.98         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 15       | 21.98         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 17       | 21.98         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 10       | 21.98         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 4        | 21.97         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 9        | 21.96         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 7        | 21.96         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 1        | 21.95         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 9        | 21.95         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 15       | 21.95         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 7        | 21.94         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 7        | 21.94         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 11       | 21.94         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 18       | 21.94         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 4        | 21.94         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 12       | 21.94         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 14       | 21.94         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 15       | 21.94         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 6        | 21.93         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 4        | 21.93         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 17       | 21.92         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 8        | 21.92         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 5        | 21.91         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 20       | 21.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 13       | 21.91         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 5        | 21.91         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 14       | 21.91         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 10       | 21.9          |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 7        | 21.9          |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 3        | 21.9          |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 8        | 21.89         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 10       | 21.89         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 14       | 21.89         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 8        | 21.89         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 17       | 21.89         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 14       | 21.89         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 14       | 21.89         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 5        | 21.88         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 4        | 21.88         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 13       | 21.87         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 2        | 21.87         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 12       | 21.87         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 14       | 21.86         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 15       | 21.86         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 15       | 21.86         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 10       | 21.86         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 9        | 21.86         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 7        | 21.85         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 10       | 21.85         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 13       | 21.85         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 2        | 21.84         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 20       | 21.84         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 8        | 21.84         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 3        | 21.84         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 2        | 21.83         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 9        | 21.83         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 12       | 21.83         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 4        | 21.83         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 10       | 21.83         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 4        | 21.82         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 19       | 21.82         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 3        | 21.81         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 8        | 21.81         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 2        | 21.81         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 2        | 21.8          |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 4        | 21.8          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 15       | 21.8          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 2        | 21.8          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 6        | 21.8          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 15       | 21.8          |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 3        | 21.8          |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 5        | 21.8          |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 10       | 21.8          |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 11       | 21.79         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 4        | 21.79         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 5        | 21.79         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 6        | 21.79         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 4        | 21.79         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 17       | 21.78         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 12       | 21.77         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 15       | 21.77         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 5        | 21.77         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 16       | 21.77         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 7        | 21.77         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 9        | 21.77         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 14       | 21.77         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 17       | 21.76         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 18       | 21.76         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 12       | 21.76         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 14       | 21.75         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 8        | 21.75         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 1        | 21.75         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 13       | 21.75         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 18       | 21.74         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 18       | 21.74         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 11       | 21.74         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 16       | 21.73         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 20       | 21.73         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 3        | 21.73         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 10       | 21.73         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 14       | 21.73         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 15       | 21.72         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 18       | 21.71         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 2        | 21.71         |
| (1,982)  | 1:A:3:PRO:HD2  | 1:A:30:PRO:HB2 | 19       | 21.7          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 10       | 21.7          |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 18       | 21.69         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 20       | 21.69         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 8        | 21.68         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 8        | 21.68         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 19       | 21.68         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 11       | 21.68         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 19       | 21.68         |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 4        | 21.68         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 15       | 21.68         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 17       | 21.67         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 1        | 21.67         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 9        | 21.67         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 4        | 21.67         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 12       | 21.66         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 4        | 21.66         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 15       | 21.66         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 13       | 21.66         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 3        | 21.66         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 14       | 21.66         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 1        | 21.64         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 10       | 21.64         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 5        | 21.64         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 14       | 21.64         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 20       | 21.63         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 13       | 21.63         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 2        | 21.63         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 1        | 21.63         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 6        | 21.62         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 6        | 21.62         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 6        | 21.62         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 20       | 21.62         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 14       | 21.61         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 1        | 21.61         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 10       | 21.61         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 8        | 21.6          |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 8        | 21.6          |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 15       | 21.6          |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 3        | 21.6          |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 3        | 21.6          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 18       | 21.6          |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 19       | 21.6          |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 15       | 21.6          |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 15       | 21.59         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 11       | 21.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 10       | 21.59         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 10       | 21.59         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 16       | 21.59         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 12       | 21.58         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 8        | 21.58         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 14       | 21.57         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 3        | 21.57         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 3        | 21.57         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 6        | 21.57         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 6        | 21.57         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 8        | 21.56         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 5        | 21.56         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 5        | 21.56         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 10       | 21.56         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 17       | 21.55         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 10       | 21.55         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 2        | 21.55         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 12       | 21.55         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 10       | 21.55         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 2        | 21.54         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 2        | 21.54         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 17       | 21.54         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 8        | 21.53         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 4        | 21.53         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 4        | 21.53         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 14       | 21.52         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 14       | 21.52         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 20       | 21.51         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 17       | 21.5          |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 5        | 21.5          |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 5        | 21.5          |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 14       | 21.5          |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 12       | 21.5          |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 14       | 21.5          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 4        | 21.5          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 13       | 21.5          |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 18       | 21.49         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 5        | 21.49         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 12       | 21.49         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 4        | 21.49         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 20       | 21.49         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 10       | 21.49         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 8        | 21.48         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 8        | 21.48         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 17       | 21.48         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 14       | 21.48         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 7        | 21.48         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 2        | 21.48         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 2        | 21.48         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 4        | 21.48         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 4        | 21.48         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 10       | 21.48         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 10       | 21.48         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 2        | 21.47         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 9        | 21.47         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 8        | 21.47         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 8        | 21.47         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 13       | 21.47         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 12       | 21.47         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 3        | 21.46         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 7        | 21.46         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 4        | 21.46         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 4        | 21.46         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 8        | 21.46         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 10       | 21.45         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 1        | 21.45         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 14       | 21.45         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 14       | 21.45         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 10       | 21.45         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 13       | 21.45         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 6        | 21.44         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 12       | 21.44         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 12       | 21.44         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 2        | 21.44         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 2        | 21.44         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 17       | 21.44         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 12       | 21.44         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 14       | 21.44         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 15       | 21.44         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 3        | 21.43         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 6        | 21.43         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 12       | 21.43         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 4        | 21.43         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 2        | 21.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 2        | 21.42         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 10       | 21.42         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 4        | 21.42         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 13       | 21.42         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 13       | 21.42         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 12       | 21.42         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 3        | 21.42         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 12       | 21.42         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 4        | 21.42         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 14       | 21.42         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 6        | 21.41         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 10       | 21.4          |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 3        | 21.4          |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 9        | 21.4          |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 15       | 21.4          |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 8        | 21.4          |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 9        | 21.39         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 17       | 21.39         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 17       | 21.39         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 3        | 21.39         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 5        | 21.39         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 2        | 21.39         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 4        | 21.38         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 12       | 21.38         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 20       | 21.38         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 8        | 21.38         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 8        | 21.38         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 4        | 21.38         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 4        | 21.38         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 4        | 21.38         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 11       | 21.38         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 9        | 21.37         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 13       | 21.37         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 13       | 21.37         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 13       | 21.37         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 17       | 21.37         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 17       | 21.37         |
| (1,2559) | 1:A:10:GLY:HA3 | 1:A:29:GLY:HA2 | 17       | 21.37         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 14       | 21.37         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 14       | 21.37         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 10       | 21.37         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 16       | 21.37         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 10       | 21.37         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 5        | 21.36         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 4        | 21.36         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 7        | 21.35         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 7        | 21.35         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 15       | 21.35         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 15       | 21.35         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 13       | 21.35         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 13       | 21.35         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 4        | 21.35         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 12       | 21.35         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 2        | 21.34         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 18       | 21.34         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 19       | 21.34         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 17       | 21.34         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 17       | 21.34         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 20       | 21.34         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 10       | 21.34         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 10       | 21.34         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 8        | 21.34         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 2        | 21.34         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 5        | 21.33         |
| (1,699)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HB2 | 16       | 21.33         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 9        | 21.33         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 9        | 21.33         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 13       | 21.33         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 5        | 21.33         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 1        | 21.32         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 1        | 21.32         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 14       | 21.32         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 8        | 21.32         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 10       | 21.31         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 15       | 21.3          |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 11       | 21.3          |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 11       | 21.3          |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 8        | 21.3          |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 8        | 21.3          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 17       | 21.29         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 4        | 21.28         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 15       | 21.28         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 12       | 21.27         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 11       | 21.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 11       | 21.27         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 19       | 21.27         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 12       | 21.27         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 17       | 21.26         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 6        | 21.26         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 6        | 21.26         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 17       | 21.26         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 15       | 21.25         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 13       | 21.25         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 1        | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 18       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 18       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 19       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 19       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 20       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 20       | 21.24         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB2 | 16       | 21.23         |
| (1,2979) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HB3 | 16       | 21.23         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 12       | 21.23         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 12       | 21.23         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 15       | 21.23         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 12       | 21.22         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 3        | 21.22         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 3        | 21.22         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 3        | 21.22         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 6        | 21.22         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 1        | 21.22         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 1        | 21.22         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 12       | 21.22         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 8        | 21.22         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 10       | 21.21         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 10       | 21.21         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 10       | 21.21         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 10       | 21.21         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 15       | 21.21         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 15       | 21.21         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 6        | 21.21         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 15       | 21.21         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 3        | 21.21         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 5        | 21.2          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 5        | 21.2          |
| (1,2279) | 1:A:9:PRO:HB3  | 1:A:30:PRO:HD2 | 17       | 21.2          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 2        | 21.2          |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 6        | 21.19         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 6        | 21.19         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 3        | 21.19         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 6        | 21.19         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 12       | 21.19         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 18       | 21.19         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 7        | 21.19         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 10       | 21.18         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 11       | 21.18         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 17       | 21.18         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 16       | 21.18         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 18       | 21.18         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 14       | 21.18         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 6        | 21.17         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 7        | 21.17         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 7        | 21.17         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 11       | 21.17         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 11       | 21.17         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 8        | 21.17         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 15       | 21.17         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 4        | 21.17         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 8        | 21.17         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 15       | 21.16         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 9        | 21.16         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 14       | 21.16         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 14       | 21.16         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 7        | 21.16         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 7        | 21.16         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 8        | 21.16         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 8        | 21.16         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 8        | 21.16         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 9        | 21.15         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 9        | 21.15         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 9        | 21.15         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 6        | 21.15         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 1        | 21.15         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 5        | 21.14         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 18       | 21.14         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 12       | 21.14         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 12       | 21.14         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 12       | 21.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 13       | 21.14         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 8        | 21.13         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 1        | 21.13         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 5        | 21.13         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 13       | 21.13         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 11       | 21.12         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 18       | 21.12         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 10       | 21.12         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 8        | 21.12         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 16       | 21.12         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 8        | 21.11         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 20       | 21.11         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 8        | 21.11         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 6        | 21.11         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 6        | 21.11         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 8        | 21.1          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 8        | 21.1          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 9        | 21.1          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 9        | 21.1          |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 10       | 21.1          |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 3        | 21.1          |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 2        | 21.1          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 1        | 21.1          |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 1        | 21.09         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 3        | 21.09         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 11       | 21.09         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 2        | 21.08         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 2        | 21.08         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 5        | 21.08         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 4        | 21.08         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 15       | 21.08         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 14       | 21.08         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 15       | 21.08         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 15       | 21.08         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 18       | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 4        | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 4        | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 18       | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 18       | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 19       | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 19       | 21.07         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 20       | 21.07         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 20       | 21.07         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 6        | 21.07         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 12       | 21.07         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 11       | 21.06         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 19       | 21.06         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 20       | 21.06         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 6        | 21.06         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 16       | 21.06         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 16       | 21.06         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 11       | 21.06         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 20       | 21.06         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 20       | 21.06         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 3        | 21.06         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 3        | 21.06         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 6        | 21.06         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 6        | 21.06         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 1        | 21.06         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 10       | 21.06         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 3        | 21.06         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 14       | 21.05         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 10       | 21.05         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 18       | 21.05         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 18       | 21.05         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 19       | 21.05         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 19       | 21.05         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 2        | 21.05         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 5        | 21.05         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 7        | 21.05         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 9        | 21.05         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 1        | 21.05         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 15       | 21.05         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 18       | 21.05         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 11       | 21.05         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 6        | 21.04         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 4        | 21.04         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 16       | 21.03         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 3        | 21.03         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 10       | 21.03         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG2 | 16       | 21.03         |
| (1,2924) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HG3 | 16       | 21.03         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 9        | 21.03         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 5        | 21.03         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 10       | 21.02         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 10       | 21.02         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 14       | 21.02         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 3        | 21.02         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 12       | 21.02         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 13       | 21.02         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 15       | 21.02         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 4        | 21.01         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 5        | 21.01         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 15       | 21.01         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 15       | 21.01         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 18       | 21.01         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 20       | 21.01         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 14       | 21.01         |
| (1,1373) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HB2 | 19       | 21.01         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 10       | 21.01         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 2        | 21.0          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 1        | 21.0          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 1        | 21.0          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 11       | 21.0          |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 11       | 21.0          |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 19       | 21.0          |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 5        | 21.0          |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 5        | 21.0          |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 15       | 21.0          |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 12       | 21.0          |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 14       | 21.0          |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 4        | 21.0          |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 15       | 21.0          |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 9        | 20.99         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 14       | 20.99         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 9        | 20.99         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 17       | 20.99         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 7        | 20.99         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 14       | 20.99         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 14       | 20.98         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 14       | 20.98         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 10       | 20.98         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 13       | 20.98         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 13       | 20.98         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 4        | 20.98         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 4        | 20.98         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 20       | 20.98         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 2        | 20.97         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 4        | 20.97         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 4        | 20.97         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 11       | 20.97         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 3        | 20.97         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 16       | 20.97         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 17       | 20.96         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 2        | 20.96         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 2        | 20.96         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 10       | 20.96         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 14       | 20.96         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 1        | 20.96         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 11       | 20.96         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 14       | 20.95         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 14       | 20.95         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 12       | 20.95         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 19       | 20.94         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 7        | 20.94         |
| (1,2982) | 1:A:11:TRP:HH2 | 1:A:34:ALA:HA  | 16       | 20.94         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 3        | 20.94         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 3        | 20.94         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 4        | 20.94         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 13       | 20.93         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 10       | 20.93         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 6        | 20.93         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 18       | 20.92         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 7        | 20.92         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 8        | 20.92         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 4        | 20.92         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 17       | 20.92         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 19       | 20.91         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 15       | 20.91         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 13       | 20.91         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 16       | 20.91         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 18       | 20.91         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 20       | 20.91         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 14       | 20.91         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 12       | 20.91         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 10       | 20.91         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 7        | 20.9          |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 14       | 20.9          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 14       | 20.9          |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 14       | 20.9          |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 19       | 20.9          |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 2        | 20.9          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 20       | 20.9          |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 2        | 20.89         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 13       | 20.89         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 13       | 20.89         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 17       | 20.89         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 17       | 20.89         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 16       | 20.89         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 9        | 20.89         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 5        | 20.89         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 18       | 20.89         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 20       | 20.88         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 3        | 20.88         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 6        | 20.88         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 7        | 20.88         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 8        | 20.88         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 13       | 20.88         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 4        | 20.87         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 4        | 20.87         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 4        | 20.87         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 13       | 20.87         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 7        | 20.87         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 8        | 20.87         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 12       | 20.87         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 15       | 20.87         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 19       | 20.87         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG2 | 17       | 20.86         |
| (1,2952) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HG3 | 17       | 20.86         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 9        | 20.86         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 17       | 20.86         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 9        | 20.86         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 13       | 20.85         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 2        | 20.85         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 5        | 20.85         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 19       | 20.85         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 11       | 20.85         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 5        | 20.84         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 5        | 20.84         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 3        | 20.84         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 15       | 20.83         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 15       | 20.83         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 4        | 20.83         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 12       | 20.83         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 12       | 20.83         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 15       | 20.83         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 15       | 20.83         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 11       | 20.83         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 6        | 20.83         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 14       | 20.83         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 11       | 20.83         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 12       | 20.82         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 2        | 20.82         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 13       | 20.82         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 2        | 20.82         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 1        | 20.82         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 12       | 20.82         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 2        | 20.82         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 8        | 20.81         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 7        | 20.81         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 3        | 20.81         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 10       | 20.81         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 6        | 20.8          |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 15       | 20.8          |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 12       | 20.8          |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 18       | 20.79         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 1        | 20.79         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 9        | 20.79         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 10       | 20.79         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 16       | 20.78         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 9        | 20.78         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 12       | 20.78         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 6        | 20.78         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 6        | 20.78         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 8        | 20.78         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 15       | 20.78         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 4        | 20.78         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 11       | 20.77         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 11       | 20.77         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 15       | 20.77         |
| (1,2512) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB2 | 17       | 20.77         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 7        | 20.77         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 2        | 20.77         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 5        | 20.77         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 20       | 20.77         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 15       | 20.77         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 18       | 20.77         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 7        | 20.76         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 20       | 20.76         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 12       | 20.76         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 12       | 20.76         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 15       | 20.76         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 15       | 20.76         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 16       | 20.76         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 12       | 20.75         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 8        | 20.75         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 18       | 20.75         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 19       | 20.75         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 8        | 20.75         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 16       | 20.75         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 1        | 20.75         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 14       | 20.74         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 15       | 20.74         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 10       | 20.74         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 17       | 20.73         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 17       | 20.73         |
| (1,2927) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HA  | 16       | 20.73         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 1        | 20.73         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 1        | 20.73         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 20       | 20.73         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 15       | 20.73         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 18       | 20.73         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 18       | 20.73         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 9        | 20.72         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 19       | 20.72         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 10       | 20.72         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 19       | 20.72         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 5        | 20.72         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 1        | 20.71         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 15       | 20.71         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 18       | 20.71         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 20       | 20.71         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 2        | 20.71         |
| (1,1905) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HB2 | 2        | 20.71         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 8        | 20.7          |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 8        | 20.7          |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 8        | 20.7          |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 8        | 20.7          |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 13       | 20.7          |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 10       | 20.7          |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 11       | 20.69         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 11       | 20.69         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 12       | 20.69         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 12       | 20.68         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 12       | 20.68         |
| (1,2560) | 1:A:10:GLY:HA3 | 1:A:30:PRO:HA  | 17       | 20.68         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 12       | 20.68         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 6        | 20.67         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 6        | 20.67         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 16       | 20.67         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 12       | 20.67         |
| (1,2978) | 1:A:11:TRP:HH2 | 1:A:29:GLY:HA3 | 11       | 20.66         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 20       | 20.66         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 20       | 20.66         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 3        | 20.65         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 3        | 20.65         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 18       | 20.65         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 19       | 20.65         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 2        | 20.65         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 12       | 20.65         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 4        | 20.64         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 4        | 20.64         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 3        | 20.64         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 7        | 20.64         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 7        | 20.64         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 9        | 20.64         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 9        | 20.64         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 2        | 20.64         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 17       | 20.64         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 17       | 20.64         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 12       | 20.63         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 12       | 20.63         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 1        | 20.63         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 6        | 20.62         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 6        | 20.62         |
| (1,2926) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:H   | 16       | 20.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 7        | 20.62         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 13       | 20.62         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 12       | 20.61         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 12       | 20.61         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 5        | 20.61         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 5        | 20.61         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 10       | 20.61         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 10       | 20.61         |
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 4        | 20.61         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 18       | 20.61         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 6        | 20.6          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 3        | 20.59         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 3        | 20.59         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 11       | 20.59         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 11       | 20.59         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 7        | 20.58         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 15       | 20.58         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 19       | 20.58         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 16       | 20.57         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 5        | 20.57         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 5        | 20.57         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 12       | 20.57         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 12       | 20.57         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 4        | 20.57         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 18       | 20.57         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 19       | 20.57         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 20       | 20.57         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 8        | 20.57         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 2        | 20.57         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 10       | 20.56         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 10       | 20.56         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 14       | 20.56         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 14       | 20.56         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 14       | 20.56         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 14       | 20.56         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 10       | 20.56         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 1        | 20.56         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 1        | 20.56         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 10       | 20.56         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 20       | 20.55         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 9        | 20.55         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 3        | 20.55         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 13       | 20.55         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 13       | 20.55         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 4        | 20.55         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 4        | 20.55         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 15       | 20.55         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 1        | 20.55         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 13       | 20.55         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 13       | 20.55         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 16       | 20.55         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 15       | 20.54         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 12       | 20.54         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 2        | 20.54         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 2        | 20.54         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 8        | 20.54         |
| (1,828)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:HA  | 7        | 20.53         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 1        | 20.53         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 12       | 20.53         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 7        | 20.53         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 7        | 20.53         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 8        | 20.53         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 8        | 20.53         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 9        | 20.53         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 17       | 20.53         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 9        | 20.53         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 18       | 20.52         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 18       | 20.52         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 19       | 20.52         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 19       | 20.52         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 20       | 20.52         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 20       | 20.52         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 9        | 20.51         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 15       | 20.51         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 14       | 20.51         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 3        | 20.51         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB2 | 16       | 20.51         |
| (1,2923) | 1:A:11:TRP:HZ3 | 1:A:30:PRO:HB3 | 16       | 20.51         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 12       | 20.51         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 12       | 20.51         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 12       | 20.51         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 15       | 20.51         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 2        | 20.51         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 6        | 20.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 10       | 20.5          |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 18       | 20.5          |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 6        | 20.49         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 5        | 20.49         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 14       | 20.49         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 14       | 20.49         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 13       | 20.48         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 13       | 20.48         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 16       | 20.48         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 16       | 20.48         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 9        | 20.48         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 9        | 20.48         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 15       | 20.48         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 15       | 20.48         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 12       | 20.48         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 12       | 20.48         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 2        | 20.47         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 6        | 20.47         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 14       | 20.47         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 2        | 20.47         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 2        | 20.47         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 15       | 20.47         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 6        | 20.47         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 5        | 20.47         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 5        | 20.47         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 7        | 20.47         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 7        | 20.47         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 17       | 20.46         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 4        | 20.46         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 11       | 20.46         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 3        | 20.46         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 4        | 20.46         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 4        | 20.46         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 9        | 20.46         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 9        | 20.46         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 12       | 20.45         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 4        | 20.45         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 17       | 20.44         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 18       | 20.44         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 20       | 20.44         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 14       | 20.44         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 15       | 20.43         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 15       | 20.43         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 19       | 20.43         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 15       | 20.43         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 15       | 20.43         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 6        | 20.43         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 3        | 20.43         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 3        | 20.43         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 3        | 20.43         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 7        | 20.43         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 20       | 20.43         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 8        | 20.43         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 7        | 20.43         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 7        | 20.42         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 8        | 20.42         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 9        | 20.42         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 7        | 20.42         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 13       | 20.41         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 13       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 18       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 18       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 19       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 19       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 20       | 20.41         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 20       | 20.41         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 11       | 20.41         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 13       | 20.41         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 6        | 20.41         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 14       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 11       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 11       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 13       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 13       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 16       | 20.4          |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 16       | 20.4          |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 15       | 20.4          |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 10       | 20.4          |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 11       | 20.39         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 7        | 20.39         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 7        | 20.39         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 1        | 20.39         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 1        | 20.39         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 13       | 20.39         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 1        | 20.39         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 15       | 20.39         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 1        | 20.39         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 14       | 20.39         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 8        | 20.39         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 19       | 20.39         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 11       | 20.39         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 16       | 20.38         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 16       | 20.38         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 5        | 20.38         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 10       | 20.38         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 12       | 20.38         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 12       | 20.38         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 3        | 20.38         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 6        | 20.38         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 12       | 20.38         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 8        | 20.38         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 20       | 20.38         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 18       | 20.37         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 17       | 20.37         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 17       | 20.37         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 6        | 20.37         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 6        | 20.37         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 8        | 20.37         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 9        | 20.37         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 20       | 20.37         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 7        | 20.37         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 9        | 20.37         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 3        | 20.37         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 10       | 20.36         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 10       | 20.36         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 14       | 20.36         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 12       | 20.36         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 16       | 20.36         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 18       | 20.36         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 19       | 20.36         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 13       | 20.35         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 20.35         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 1        | 20.35         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 10       | 20.35         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 10       | 20.35         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 7        | 20.35         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 16       | 20.35         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 18       | 20.35         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 19       | 20.35         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 14       | 20.35         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 3        | 20.34         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 3        | 20.34         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 9        | 20.34         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 9        | 20.34         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 15       | 20.34         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 9        | 20.34         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 9        | 20.34         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 11       | 20.34         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 7        | 20.34         |
| (1,2935) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:HA  | 16       | 20.34         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 12       | 20.34         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 7        | 20.34         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 7        | 20.34         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 8        | 20.34         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 3        | 20.34         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 14       | 20.33         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 14       | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 1        | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 1        | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 8        | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 8        | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 15       | 20.33         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 15       | 20.33         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 5        | 20.33         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 10       | 20.33         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 3        | 20.33         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 3        | 20.33         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 15       | 20.33         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 15       | 20.33         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 3        | 20.33         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 15       | 20.33         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 13       | 20.32         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 2        | 20.32         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 6        | 20.32         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 15       | 20.32         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 12       | 20.32         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 8        | 20.32         |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 16       | 20.32         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 17       | 20.31         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 1        | 20.31         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 7        | 20.31         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 17       | 20.31         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 16       | 20.3          |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 18       | 20.3          |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 18       | 20.3          |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 19       | 20.3          |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 19       | 20.3          |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 18       | 20.3          |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 9        | 20.3          |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 14       | 20.3          |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 19       | 20.3          |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 14       | 20.3          |
| (1,1048) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HA  | 7        | 20.3          |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 20       | 20.3          |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 18       | 20.29         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 20       | 20.29         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 4        | 20.29         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 11       | 20.29         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 11       | 20.29         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 20       | 20.29         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 20       | 20.29         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB2 | 17       | 20.29         |
| (1,2951) | 1:A:11:TRP:HZ2 | 1:A:30:PRO:HB3 | 17       | 20.29         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 3        | 20.29         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 3        | 20.29         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 7        | 20.29         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 20       | 20.29         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 2        | 20.28         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA  | 17       | 20.28         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 17       | 20.28         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 10       | 20.28         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 4        | 20.28         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 6        | 20.28         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 6        | 20.28         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 4        | 20.28         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD2 | 16       | 20.27         |
| (1,2980) | 1:A:11:TRP:HH2 | 1:A:30:PRO:HD3 | 16       | 20.27         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 3        | 20.27         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 6        | 20.27         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 4        | 20.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2514) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HB3 | 17       | 20.27         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 15       | 20.27         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 15       | 20.27         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 15       | 20.27         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 6        | 20.27         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 16       | 20.26         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 12       | 20.26         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 12       | 20.26         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 15       | 20.26         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 5        | 20.26         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 11       | 20.26         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 7        | 20.25         |
| (1,736)  | 1:A:2:GLY:HA3  | 1:A:30:PRO:HB2 | 19       | 20.25         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 14       | 20.25         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 10       | 20.25         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 3        | 20.25         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 3        | 20.25         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 4        | 20.25         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 16       | 20.25         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 13       | 20.25         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 6        | 20.25         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 9        | 20.25         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 12       | 20.25         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 6        | 20.24         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 2        | 20.23         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 5        | 20.23         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 10       | 20.23         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 1        | 20.22         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 18       | 20.22         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 5        | 20.22         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 5        | 20.22         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 13       | 20.22         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 1        | 20.22         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 4        | 20.21         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 7        | 20.21         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 11       | 20.21         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 19       | 20.21         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 19       | 20.21         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 5        | 20.21         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 7        | 20.21         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 14       | 20.2          |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 2        | 20.2          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 2        | 20.2          |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 6        | 20.2          |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 7        | 20.2          |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 13       | 20.19         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 16       | 20.19         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 17       | 20.19         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 5        | 20.19         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 4        | 20.19         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 8        | 20.19         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 16       | 20.19         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 11       | 20.19         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 19       | 20.19         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 13       | 20.18         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 14       | 20.18         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 3        | 20.18         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 4        | 20.18         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 1        | 20.18         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 10       | 20.17         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 10       | 20.17         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 5        | 20.17         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 10       | 20.17         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 10       | 20.17         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 14       | 20.17         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 14       | 20.17         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 8        | 20.17         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 18       | 20.17         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 8        | 20.17         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 11       | 20.17         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 18       | 20.17         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 19       | 20.17         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 20       | 20.17         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 13       | 20.17         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 18       | 20.17         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 6        | 20.17         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 14       | 20.17         |
| (1,2562) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB2 | 17       | 20.16         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 4        | 20.16         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 4        | 20.16         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 9        | 20.16         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 16       | 20.16         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 13       | 20.16         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 15       | 20.16         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 6        | 20.15         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 12       | 20.15         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 17       | 20.15         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 1        | 20.15         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 13       | 20.15         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 8        | 20.15         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 10       | 20.15         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 12       | 20.15         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 4        | 20.15         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 8        | 20.15         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 5        | 20.14         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 5        | 20.14         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 18       | 20.14         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 16       | 20.14         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 3        | 20.13         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 6        | 20.13         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 6        | 20.13         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 12       | 20.13         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 5        | 20.13         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 4        | 20.13         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 8        | 20.12         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 14       | 20.12         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 10       | 20.12         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 3        | 20.11         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 7        | 20.11         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 4        | 20.11         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 15       | 20.11         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 17       | 20.11         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 17       | 20.11         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 17       | 20.11         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 10       | 20.11         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 8        | 20.11         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 2        | 20.11         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 6        | 20.11         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 5        | 20.11         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 5        | 20.11         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3 | 6        | 20.1          |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 2        | 20.1          |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 14       | 20.1          |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 8        | 20.1          |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 15       | 20.1          |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 19       | 20.09         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 6        | 20.09         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 7        | 20.09         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 7        | 20.09         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 7        | 20.09         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 17       | 20.09         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 17       | 20.09         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 12       | 20.09         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 12       | 20.09         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 11       | 20.09         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 3        | 20.09         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 4        | 20.09         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 18       | 20.09         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 10       | 20.09         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 17       | 20.08         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 10       | 20.08         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 10       | 20.08         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 10       | 20.08         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 7        | 20.08         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 13       | 20.08         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 11       | 20.08         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 20       | 20.08         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 6        | 20.07         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 14       | 20.07         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 12       | 20.07         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 12       | 20.07         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 16       | 20.07         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 6        | 20.06         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 7        | 20.06         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 13       | 20.06         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 1        | 20.06         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 14       | 20.06         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 10       | 20.06         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 2        | 20.06         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 18       | 20.06         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 19       | 20.05         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 1        | 20.05         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 13       | 20.05         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 13       | 20.05         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 17       | 20.05         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 8        | 20.05         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 12       | 20.04         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 2        | 20.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 5        | 20.04         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 10       | 20.04         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 13       | 20.04         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 4        | 20.04         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA  | 19       | 20.04         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 17       | 20.03         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 3        | 20.03         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 3        | 20.03         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 2        | 20.03         |
| (1,882)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HD2 | 3        | 20.02         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 1        | 20.02         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 3        | 20.02         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 3        | 20.02         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 6        | 20.02         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 6        | 20.02         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 6        | 20.02         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 6        | 20.02         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 6        | 20.02         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 13       | 20.02         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 11       | 20.01         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 2        | 20.01         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 9        | 20.01         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 16       | 20.01         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 5        | 20.0          |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 7        | 20.0          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 17       | 20.0          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 17       | 20.0          |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 2        | 20.0          |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 3        | 20.0          |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2 | 4        | 20.0          |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 8        | 19.99         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 8        | 19.99         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 4        | 19.99         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 4        | 19.99         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 11       | 19.99         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 10       | 19.99         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 3        | 19.99         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 8        | 19.98         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 14       | 19.98         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 14       | 19.98         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 11       | 19.98         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 10       | 19.97         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 2        | 19.97         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 3        | 19.97         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 14       | 19.97         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 14       | 19.97         |
| (1,1389) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HA  | 7        | 19.97         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 14       | 19.96         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 20       | 19.96         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 11       | 19.96         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 11       | 19.96         |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 4        | 19.96         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 2        | 19.96         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 4        | 19.96         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 12       | 19.96         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 13       | 19.95         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 13       | 19.95         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 18       | 19.95         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 10       | 19.95         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 10       | 19.95         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 7        | 19.95         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 5        | 19.95         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 5        | 19.95         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 1        | 19.95         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 1        | 19.95         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 3        | 19.95         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 8        | 19.95         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 16       | 19.95         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 16       | 19.95         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 14       | 19.95         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 2        | 19.95         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 2        | 19.95         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 8        | 19.94         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 4        | 19.94         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 6        | 19.94         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 4        | 19.94         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 9        | 19.94         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 1        | 19.93         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 4        | 19.93         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 13       | 19.93         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 4        | 19.93         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 4        | 19.93         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 10       | 19.93         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 10       | 19.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 2        | 19.93         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 10       | 19.93         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2  | 8        | 19.93         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H    | 6        | 19.93         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H    | 15       | 19.93         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H    | 10       | 19.92         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H    | 11       | 19.92         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H    | 9        | 19.92         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 13       | 19.92         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 2        | 19.92         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2  | 2        | 19.92         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3  | 2        | 19.92         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2  | 14       | 19.92         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3  | 14       | 19.92         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H    | 5        | 19.92         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H    | 6        | 19.91         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 8        | 19.91         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H    | 12       | 19.91         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H    | 15       | 19.91         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 4        | 19.91         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 14       | 19.91         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2  | 2        | 19.91         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3  | 2        | 19.91         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 10       | 19.91         |
| (1,1037) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HA   | 2        | 19.91         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2  | 16       | 19.9          |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2  | 16       | 19.9          |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2  | 1        | 19.9          |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 9        | 19.9          |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 5        | 19.9          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 13       | 19.9          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 13       | 19.9          |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2  | 7        | 19.9          |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H    | 4        | 19.89         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H    | 8        | 19.89         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3  | 5        | 19.89         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 6        | 19.89         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 6        | 19.89         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3  | 1        | 19.89         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3  | 15       | 19.89         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 14       | 19.89         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2  | 19       | 19.89         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 16       | 19.89         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 16       | 19.89         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 16       | 19.89         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 7        | 19.89         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 7        | 19.89         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 9        | 19.89         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 2        | 19.89         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 6        | 19.89         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 14       | 19.89         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 2        | 19.88         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 18       | 19.88         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 20       | 19.88         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 16       | 19.88         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 16       | 19.88         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 12       | 19.88         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 9        | 19.88         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 9        | 19.88         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 3        | 19.88         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 10       | 19.88         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 5        | 19.87         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 7        | 19.87         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 6        | 19.87         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 19       | 19.87         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 13       | 19.87         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 5        | 19.87         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 18       | 19.87         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 7        | 19.86         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 7        | 19.86         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 4        | 19.86         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 14       | 19.86         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 7        | 19.86         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 14       | 19.86         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 5        | 19.86         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 14       | 19.85         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 4        | 19.85         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 13       | 19.85         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 1        | 19.85         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 2        | 19.85         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 15       | 19.85         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 19       | 19.85         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 17       | 19.84         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 17       | 19.84         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 2        | 19.84         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 3        | 19.84         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 20       | 19.84         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 11       | 19.84         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 13       | 19.84         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 17       | 19.84         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 5        | 19.83         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 9        | 19.83         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 5        | 19.83         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 8        | 19.83         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 7        | 19.83         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 16       | 19.83         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 11       | 19.83         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 13       | 19.83         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 1        | 19.83         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 1        | 19.83         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 6        | 19.83         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 6        | 19.83         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 7        | 19.83         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 13       | 19.82         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 14       | 19.82         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 12       | 19.82         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 12       | 19.82         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 3        | 19.82         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 3        | 19.82         |
| (1,2928) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HB2 | 15       | 19.82         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 9        | 19.82         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 11       | 19.82         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 12       | 19.82         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 17       | 19.82         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 18       | 19.81         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 12       | 19.81         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 14       | 19.81         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 8        | 19.81         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 15       | 19.81         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 8        | 19.81         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 16       | 19.81         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 5        | 19.81         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 5        | 19.81         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 18       | 19.81         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 11       | 19.8          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 13       | 19.8          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 13       | 19.8          |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 18       | 19.8          |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 10       | 19.8          |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 10       | 19.8          |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 20       | 19.8          |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 8        | 19.8          |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 17       | 19.8          |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 11       | 19.8          |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 2        | 19.79         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 3        | 19.79         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 17       | 19.79         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 17       | 19.79         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 20       | 19.79         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 1        | 19.79         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 2        | 19.78         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 2        | 19.78         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 14       | 19.78         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 14       | 19.78         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 20       | 19.78         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 15       | 19.78         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 3        | 19.78         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 3        | 19.78         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 19       | 19.78         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 8        | 19.78         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 6        | 19.77         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 15       | 19.77         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 18       | 19.77         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 19       | 19.77         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 19       | 19.77         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 12       | 19.77         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 1        | 19.76         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 1        | 19.76         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 19       | 19.76         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 8        | 19.76         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 10       | 19.75         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 6        | 19.75         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 6        | 19.75         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 8        | 19.75         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 7        | 19.75         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 9        | 19.75         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 11       | 19.75         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 16       | 19.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 8        | 19.75         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 15       | 19.74         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 9        | 19.74         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 14       | 19.74         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 9        | 19.74         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 7        | 19.74         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 18       | 19.74         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 10       | 19.73         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 10       | 19.73         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 12       | 19.73         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 20       | 19.73         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 16       | 19.73         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 3        | 19.73         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 3        | 19.73         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 2        | 19.73         |
| (1,2922) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:HA3 | 16       | 19.72         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 14       | 19.72         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 14       | 19.72         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 15       | 19.72         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 15       | 19.72         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 10       | 19.72         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 3        | 19.72         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 18       | 19.71         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 20       | 19.71         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 12       | 19.71         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 1        | 19.71         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 1        | 19.71         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 2        | 19.71         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 14       | 19.71         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 19       | 19.7          |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 15       | 19.7          |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 15       | 19.7          |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 17       | 19.7          |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 17       | 19.7          |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 14       | 19.7          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 12       | 19.7          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 12       | 19.7          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 15       | 19.7          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 15       | 19.7          |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 15       | 19.7          |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 4        | 19.7          |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 4        | 19.7          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 5        | 19.7          |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 5        | 19.7          |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 10       | 19.7          |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 10       | 19.7          |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 19       | 19.7          |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 15       | 19.7          |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 17       | 19.69         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 17       | 19.69         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 9        | 19.69         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 14       | 19.69         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 12       | 19.69         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 13       | 19.69         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 2        | 19.69         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 2        | 19.69         |
| (1,2229) | 1:A:9:PRO:HB2  | 1:A:28:SER:HB2 | 17       | 19.69         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 15       | 19.69         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 16       | 19.68         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 1        | 19.68         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 4        | 19.68         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 8        | 19.68         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 13       | 19.68         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 7        | 19.67         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 7        | 19.67         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 15       | 19.67         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 10       | 19.67         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 10       | 19.67         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 18       | 19.67         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 12       | 19.67         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 14       | 19.67         |
| (1,2230) | 1:A:9:PRO:HB2  | 1:A:29:GLY:HA3 | 17       | 19.67         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 10       | 19.67         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 5        | 19.67         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 13       | 19.66         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 13       | 19.66         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 19       | 19.66         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 8        | 19.66         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 16       | 19.66         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 13       | 19.66         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H   | 7        | 19.66         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 11       | 19.66         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 11       | 19.66         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 3        | 19.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H    | 3        | 19.65         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H    | 7        | 19.65         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3  | 1        | 19.65         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA   | 11       | 19.65         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H    | 12       | 19.65         |
| (1,2934) | 1:A:11:TRP:HZ3 | 1:A:34:ALA:H    | 16       | 19.65         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 11       | 19.65         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 17       | 19.65         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA   | 6        | 19.65         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA   | 10       | 19.65         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H    | 17       | 19.64         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 10       | 19.64         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2  | 8        | 19.64         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3  | 8        | 19.64         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3  | 6        | 19.64         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2  | 17       | 19.64         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3  | 17       | 19.64         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 8        | 19.64         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 12       | 19.64         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 5        | 19.64         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2  | 17       | 19.63         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA   | 17       | 19.63         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA   | 17       | 19.63         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA   | 5        | 19.63         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA   | 7        | 19.63         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2  | 10       | 19.63         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3  | 3        | 19.63         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3  | 12       | 19.63         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3  | 8        | 19.63         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 12       | 19.63         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 12       | 19.63         |
| (1,2276) | 1:A:9:PRO:HB3  | 1:A:28:SER:HB2  | 17       | 19.63         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H    | 6        | 19.63         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2  | 2        | 19.62         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2  | 2        | 19.62         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 8        | 19.62         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 9        | 19.62         |
| (1,2958) | 1:A:11:TRP:HZ2 | 1:A:34:ALA:HA   | 16       | 19.62         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2  | 11       | 19.62         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3  | 11       | 19.62         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 13       | 19.62         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3  | 5        | 19.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 7        | 19.62         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 8        | 19.62         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 10       | 19.62         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 12       | 19.62         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 12       | 19.62         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 17       | 19.61         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 7        | 19.61         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 8        | 19.61         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 7        | 19.61         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 7        | 19.61         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 9        | 19.61         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 9        | 19.61         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 19       | 19.61         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 19       | 19.61         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 9        | 19.61         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 4        | 19.61         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 4        | 19.61         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1 | 14       | 19.6          |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 7        | 19.6          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 7        | 19.6          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 7        | 19.6          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 12       | 19.6          |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 15       | 19.6          |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 15       | 19.6          |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 15       | 19.6          |
| (1,2564) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HB3 | 17       | 19.6          |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 15       | 19.6          |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 13       | 19.6          |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 5        | 19.6          |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 14       | 19.6          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 13       | 19.6          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 13       | 19.6          |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 6        | 19.59         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 13       | 19.59         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 15       | 19.59         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 17       | 19.59         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 17       | 19.59         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 18       | 19.59         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 2        | 19.59         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 8        | 19.59         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 3        | 19.59         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 2        | 19.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 9        | 19.59         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 10       | 19.59         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 12       | 19.59         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 12       | 19.59         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 13       | 19.59         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 11       | 19.59         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 1        | 19.59         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 3        | 19.58         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 13       | 19.58         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 9        | 19.58         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 4        | 19.58         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 15       | 19.58         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 5        | 19.58         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 20       | 19.58         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 3        | 19.58         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 6        | 19.57         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 6        | 19.57         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 8        | 19.57         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 10       | 19.57         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 16       | 19.57         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 9        | 19.57         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 5        | 19.57         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 6        | 19.57         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 6        | 19.57         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 6        | 19.57         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 6        | 19.57         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 3        | 19.57         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 11       | 19.57         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 4        | 19.57         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 3        | 19.56         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 10       | 19.56         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 12       | 19.56         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 12       | 19.56         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 6        | 19.56         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 13       | 19.56         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 11       | 19.56         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 17       | 19.56         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 18       | 19.55         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 18       | 19.55         |
| (1,880)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:H   | 20       | 19.55         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 6        | 19.55         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 4        | 19.55         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 1        | 19.55         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 7        | 19.55         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 13       | 19.55         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 13       | 19.55         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 1        | 19.55         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 10       | 19.55         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 10       | 19.55         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 5        | 19.55         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 5        | 19.55         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 16       | 19.55         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 20       | 19.55         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 1        | 19.55         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 14       | 19.55         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 14       | 19.55         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 2        | 19.55         |
| (1,883)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HE1 | 1        | 19.54         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 16       | 19.54         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 1        | 19.54         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 5        | 19.54         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 14       | 19.54         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 14       | 19.54         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 3        | 19.54         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 3        | 19.54         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 1        | 19.54         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 1        | 19.54         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 15       | 19.54         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 15       | 19.54         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 17       | 19.54         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 18       | 19.54         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 19       | 19.54         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 14       | 19.54         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 13       | 19.54         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 15       | 19.54         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 17       | 19.53         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 17       | 19.53         |
| (1,879)  | 1:A:3:PRO:HB3  | 1:A:34:ALA:H   | 7        | 19.53         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 2        | 19.53         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 20       | 19.53         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 20       | 19.53         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 5        | 19.53         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 5        | 19.53         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 8        | 19.53         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 8        | 19.53         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 3        | 19.53         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 8        | 19.53         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 15       | 19.53         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 9        | 19.53         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 20       | 19.53         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 3        | 19.53         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 3        | 19.53         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 3        | 19.53         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 4        | 19.53         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 5        | 19.53         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 5        | 19.52         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 5        | 19.52         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 15       | 19.52         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 4        | 19.52         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 11       | 19.52         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 9        | 19.52         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 9        | 19.52         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 14       | 19.52         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 14       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 11       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 11       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 12       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 12       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 13       | 19.52         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 13       | 19.52         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 5        | 19.52         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 5        | 19.52         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 5        | 19.52         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 7        | 19.52         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 8        | 19.52         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 9        | 19.51         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 14       | 19.51         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 12       | 19.51         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 12       | 19.51         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 11       | 19.51         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 20       | 19.51         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 4        | 19.51         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 4        | 19.51         |
| (1,830)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HD2 | 3        | 19.5          |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 13       | 19.5          |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 13       | 19.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 15       | 19.5          |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 7        | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 18       | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 18       | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 19       | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 19       | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 20       | 19.5          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 20       | 19.5          |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 13       | 19.5          |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 2        | 19.5          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 20       | 19.5          |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 20       | 19.5          |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 1        | 19.5          |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 19       | 19.5          |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 20       | 19.5          |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 18       | 19.5          |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 18       | 19.5          |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 8        | 19.5          |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 9        | 19.5          |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 7        | 19.5          |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 16       | 19.5          |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 4        | 19.5          |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 17       | 19.5          |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 10       | 19.49         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 10       | 19.49         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 18       | 19.49         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 2        | 19.49         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 9        | 19.49         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 9        | 19.49         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 4        | 19.49         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 16       | 19.49         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 16       | 19.49         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 10       | 19.49         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 18       | 19.49         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 18       | 19.49         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2 | 19       | 19.49         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3 | 19       | 19.49         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 18       | 19.49         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 7        | 19.49         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 17       | 19.49         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 17       | 19.49         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H   | 18       | 19.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H    | 19       | 19.49         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 17       | 19.49         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2  | 9        | 19.48         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 20       | 19.48         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 18       | 19.48         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 3        | 19.48         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 12       | 19.48         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG2  | 16       | 19.48         |
| (1,2813) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HG3  | 16       | 19.48         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3  | 16       | 19.48         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2  | 8        | 19.48         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3  | 8        | 19.48         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 4        | 19.48         |
| (1,2558) | 1:A:10:GLY:HA3 | 1:A:29:GLY:H    | 16       | 19.48         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA   | 9        | 19.48         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H    | 10       | 19.48         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1  | 20       | 19.47         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1  | 20       | 19.47         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2  | 3        | 19.47         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2  | 3        | 19.47         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 6        | 19.47         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA   | 12       | 19.47         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H    | 5        | 19.47         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 20       | 19.47         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H    | 13       | 19.47         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2  | 20       | 19.46         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2  | 20       | 19.46         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H    | 5        | 19.46         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2  | 14       | 19.46         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 2        | 19.46         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA   | 5        | 19.46         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 4        | 19.46         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 4        | 19.46         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2  | 12       | 19.46         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA   | 3        | 19.46         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2  | 1        | 19.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 17       | 19.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 17       | 19.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 17       | 19.45         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H    | 6        | 19.45         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA   | 17       | 19.45         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 17       | 19.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3  | 17       | 19.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 17       | 19.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 17       | 19.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 17       | 19.45         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 4        | 19.44         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 4        | 19.44         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA   | 4        | 19.44         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2  | 11       | 19.44         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 15       | 19.44         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 15       | 19.44         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA   | 8        | 19.44         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 10       | 19.44         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 10       | 19.44         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 15       | 19.44         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2  | 10       | 19.44         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3  | 10       | 19.44         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA   | 1        | 19.44         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H    | 9        | 19.44         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 12       | 19.43         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 1        | 19.43         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 1        | 19.43         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 18       | 19.43         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2  | 3        | 19.43         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3  | 3        | 19.43         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2  | 9        | 19.43         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3  | 9        | 19.43         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA   | 8        | 19.43         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 7        | 19.42         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2  | 12       | 19.42         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H    | 17       | 19.42         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2  | 1        | 19.42         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3  | 1        | 19.42         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2  | 11       | 19.42         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3  | 11       | 19.42         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2  | 15       | 19.42         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3  | 15       | 19.42         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA   | 14       | 19.42         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA   | 3        | 19.42         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2  | 14       | 19.41         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA   | 14       | 19.41         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA   | 14       | 19.41         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 4        | 19.41         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 8        | 19.41         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 19       | 19.41         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 20       | 19.41         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 5        | 19.41         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 2        | 19.41         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 2        | 19.41         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 10       | 19.41         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 6        | 19.41         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 6        | 19.41         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 2        | 19.41         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 7        | 19.41         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 7        | 19.41         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 17       | 19.41         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 17       | 19.41         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 2        | 19.41         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 10       | 19.41         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 15       | 19.41         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 15       | 19.41         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 14       | 19.41         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 15       | 19.41         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 12       | 19.4          |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 12       | 19.4          |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 10       | 19.4          |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 16       | 19.4          |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 18       | 19.4          |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 20       | 19.4          |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 13       | 19.4          |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 15       | 19.4          |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 18       | 19.4          |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 14       | 19.4          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 1        | 19.4          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 1        | 19.4          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 4        | 19.4          |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 4        | 19.4          |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 6        | 19.4          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 16       | 19.4          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 16       | 19.4          |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1 | 9        | 19.4          |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 20       | 19.39         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 16       | 19.39         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 12       | 19.39         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 12       | 19.39         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 1        | 19.39         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 9        | 19.39         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 16       | 19.39         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 6        | 19.39         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 10       | 19.39         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 4        | 19.39         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 8        | 19.39         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 5        | 19.38         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 11       | 19.38         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 2        | 19.38         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 13       | 19.38         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 16       | 19.38         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 8        | 19.38         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 10       | 19.38         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 7        | 19.38         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 11       | 19.38         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 13       | 19.38         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 7        | 19.38         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 10       | 19.38         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 10       | 19.38         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 2        | 19.38         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 5        | 19.38         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 20       | 19.38         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 4        | 19.38         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 6        | 19.38         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 12       | 19.38         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 12       | 19.38         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 7        | 19.37         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 4        | 19.37         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 4        | 19.37         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 12       | 19.37         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 12       | 19.37         |
| (1,819)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HA  | 19       | 19.37         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1 | 14       | 19.37         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 8        | 19.37         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 8        | 19.37         |
| (1,2957) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HB2 | 17       | 19.37         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 5        | 19.37         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 14       | 19.37         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 20       | 19.37         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 13       | 19.36         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 18       | 19.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 13       | 19.36         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 13       | 19.36         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 11       | 19.36         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 11       | 19.36         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 11       | 19.36         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 2        | 19.36         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 7        | 19.36         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 3        | 19.36         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 5        | 19.36         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 9        | 19.36         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 20       | 19.36         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 5        | 19.36         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 20       | 19.36         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 15       | 19.36         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 4        | 19.36         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 20       | 19.36         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 18       | 19.36         |
| (1,831)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:HE1 | 1        | 19.35         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 11       | 19.35         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 4        | 19.35         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 4        | 19.35         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 4        | 19.35         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 5        | 19.35         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 5        | 19.35         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 13       | 19.35         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 16       | 19.35         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 18       | 19.35         |
| (1,2707) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HB3 | 19       | 19.35         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 14       | 19.35         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 6        | 19.35         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 18       | 19.35         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 19       | 19.35         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 12       | 19.35         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 14       | 19.35         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 6        | 19.35         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 7        | 19.35         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 19       | 19.35         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 6        | 19.35         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 11       | 19.34         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 1        | 19.34         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 2        | 19.34         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 2        | 19.34         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 14       | 19.34         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 11       | 19.34         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 13       | 19.34         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 13       | 19.34         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 13       | 19.34         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 3        | 19.34         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 16       | 19.34         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 2        | 19.34         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 20       | 19.34         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 2        | 19.34         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 9        | 19.33         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 14       | 19.33         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 2        | 19.33         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 19       | 19.33         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 12       | 19.33         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 12       | 19.33         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 12       | 19.32         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 12       | 19.32         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 3        | 19.32         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 3        | 19.32         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 10       | 19.32         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 10       | 19.32         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 3        | 19.32         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 3        | 19.32         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 9        | 19.32         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 14       | 19.32         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 14       | 19.32         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 1        | 19.32         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 2        | 19.32         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 10       | 19.32         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 11       | 19.32         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 15       | 19.31         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 15       | 19.31         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 4        | 19.31         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 20       | 19.31         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 20       | 19.31         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 14       | 19.31         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 14       | 19.31         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 20       | 19.31         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 8        | 19.31         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 13       | 19.3          |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 18       | 19.3          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 2        | 19.3          |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 15       | 19.3          |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 3        | 19.3          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 7        | 19.3          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 14       | 19.3          |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 14       | 19.3          |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 1        | 19.3          |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 8        | 19.29         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 8        | 19.29         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 15       | 19.29         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 15       | 19.29         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 18       | 19.29         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 19       | 19.29         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 12       | 19.29         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 12       | 19.29         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 17       | 19.29         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 18       | 19.29         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 18       | 19.29         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 19       | 19.29         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 19       | 19.29         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 18       | 19.29         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 20       | 19.29         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 9        | 19.29         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 16       | 19.29         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 16       | 19.29         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 19       | 19.28         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 3        | 19.28         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 20       | 19.28         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 13       | 19.28         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 13       | 19.28         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 4        | 19.28         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 14       | 19.28         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 17       | 19.28         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG2 | 16       | 19.28         |
| (1,2628) | 1:A:11:TRP:HA  | 1:A:30:PRO:HG3 | 16       | 19.28         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 19       | 19.28         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 11       | 19.28         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 5        | 19.28         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 15       | 19.28         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 1        | 19.28         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 9        | 19.27         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 11       | 19.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 5        | 19.27         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 4        | 19.27         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 4        | 19.27         |
| (1,2949) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:H   | 16       | 19.27         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 16       | 19.27         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 4        | 19.27         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 6        | 19.27         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 14       | 19.27         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 3        | 19.27         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 5        | 19.27         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 7        | 19.27         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 17       | 19.27         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 17       | 19.27         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 8        | 19.26         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 2        | 19.26         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 2        | 19.26         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 6        | 19.26         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 6        | 19.26         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 2        | 19.26         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 11       | 19.26         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 2        | 19.26         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 6        | 19.26         |
| (1,2231) | 1:A:9:PRO:HB2  | 1:A:31:LYS:H   | 17       | 19.26         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 8        | 19.26         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2 | 9        | 19.26         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 16       | 19.26         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 14       | 19.25         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 14       | 19.25         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 17       | 19.25         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 17       | 19.25         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 3        | 19.25         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 9        | 19.25         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 1        | 19.25         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 13       | 19.25         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 4        | 19.25         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 15       | 19.25         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 17       | 19.24         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 2        | 19.24         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 13       | 19.24         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 16       | 19.24         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 18       | 19.24         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 19       | 19.24         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 20       | 19.24         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 4        | 19.24         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 13       | 19.24         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 13       | 19.24         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 13       | 19.24         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 11       | 19.23         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 11       | 19.23         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 9        | 19.23         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 3        | 19.23         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 1        | 19.23         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 1        | 19.23         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 6        | 19.23         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 6        | 19.23         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 13       | 19.23         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 1        | 19.23         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 2        | 19.23         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 5        | 19.23         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 15       | 19.23         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 18       | 19.23         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 14       | 19.23         |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 18       | 19.23         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 3        | 19.23         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 20       | 19.22         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 4        | 19.22         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 13       | 19.22         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 13       | 19.22         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 15       | 19.22         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 15       | 19.22         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 17       | 19.22         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 20       | 19.22         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 7        | 19.22         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 13       | 19.22         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 2        | 19.22         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 2        | 19.22         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 14       | 19.22         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 13       | 19.22         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 16       | 19.22         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 19       | 19.22         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 17       | 19.22         |
| (1,1309) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HA  | 7        | 19.22         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 1        | 19.22         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 16       | 19.21         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 9        | 19.21         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 19       | 19.21         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 1        | 19.21         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 17       | 19.21         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 17       | 19.21         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 7        | 19.21         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 20       | 19.21         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 3        | 19.21         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 12       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 11       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 11       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 12       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 12       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 15       | 19.2          |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 15       | 19.2          |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 10       | 19.2          |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 7        | 19.2          |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 7        | 19.2          |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 1        | 19.2          |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 9        | 19.2          |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 20       | 19.2          |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 20       | 19.2          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 2        | 19.2          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 2        | 19.2          |
| (1,1372) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HA  | 19       | 19.2          |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 5        | 19.19         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 5        | 19.19         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 14       | 19.19         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 4        | 19.19         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 11       | 19.19         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 8        | 19.19         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 10       | 19.19         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 10       | 19.19         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 10       | 19.19         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 4        | 19.19         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 20       | 19.19         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 11       | 19.18         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 11       | 19.18         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 19       | 19.18         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 2        | 19.18         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 14       | 19.18         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 17       | 19.18         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 12       | 19.18         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 10       | 19.18         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 3        | 19.18         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 17       | 19.18         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 5        | 19.17         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 1        | 19.17         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 1        | 19.17         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 18       | 19.17         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 12       | 19.17         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 10       | 19.17         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 2        | 19.17         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 18       | 19.17         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 9        | 19.17         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 9        | 19.17         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 14       | 19.17         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 14       | 19.17         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 7        | 19.17         |
| (1,1047) | 1:A:3:PRO:HD3  | 1:A:34:ALA:H   | 16       | 19.17         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 3        | 19.17         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 13       | 19.16         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 15       | 19.16         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 6        | 19.16         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 13       | 19.16         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 11       | 19.16         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 3        | 19.16         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 19       | 19.16         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 12       | 19.16         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 8        | 19.16         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 8        | 19.16         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 1        | 19.16         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 1        | 19.16         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 18       | 19.15         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 8        | 19.15         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 8        | 19.15         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 10       | 19.15         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 5        | 19.15         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 16       | 19.15         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 18       | 19.15         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 15       | 19.15         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 4        | 19.15         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 5        | 19.15         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 14       | 19.15         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 14       | 19.15         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 14       | 19.15         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 6        | 19.15         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 8        | 19.15         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 18       | 19.15         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 20       | 19.14         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 7        | 19.14         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 9        | 19.14         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 15       | 19.14         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 7        | 19.14         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 15       | 19.14         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 15       | 19.14         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 4        | 19.14         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 10       | 19.14         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 12       | 19.14         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 3        | 19.14         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 17       | 19.14         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 17       | 19.14         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 19       | 19.13         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 7        | 19.13         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 7        | 19.13         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 9        | 19.13         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 9        | 19.13         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 5        | 19.13         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 15       | 19.13         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 1        | 19.13         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 9        | 19.13         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 6        | 19.13         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 15       | 19.13         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 7        | 19.13         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 7        | 19.13         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 7        | 19.13         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 14       | 19.13         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 19       | 19.12         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 5        | 19.12         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 5        | 19.12         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2 | 7        | 19.12         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 20       | 19.12         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 1        | 19.12         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 1        | 19.12         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 12       | 19.12         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 12       | 19.12         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 10       | 19.12         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 1        | 19.12         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 7        | 19.12         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 11       | 19.12         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 14       | 19.12         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 13       | 19.12         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 5        | 19.12         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 15       | 19.12         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 3        | 19.12         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 3        | 19.12         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 9        | 19.11         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 9        | 19.11         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 19       | 19.11         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 2        | 19.11         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 2        | 19.11         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 8        | 19.11         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 11       | 19.11         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 8        | 19.11         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 18       | 19.11         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 19       | 19.11         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 9        | 19.11         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 14       | 19.11         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 20       | 19.11         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 19       | 19.11         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 11       | 19.11         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 5        | 19.11         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 12       | 19.11         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 17       | 19.11         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 17       | 19.11         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 18       | 19.11         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 8        | 19.1          |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 8        | 19.1          |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 8        | 19.1          |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 3        | 19.1          |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 20       | 19.1          |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 8        | 19.1          |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 11       | 19.1          |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 1        | 19.1          |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 10       | 19.1          |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 13       | 19.1          |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 14       | 19.1          |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 3        | 19.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 19       | 19.1          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 11       | 19.1          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 11       | 19.1          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 11       | 19.1          |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 16       | 19.09         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 2        | 19.09         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 14       | 19.09         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 14       | 19.09         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 2        | 19.09         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 4        | 19.09         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 11       | 19.09         |
| (1,2816) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HA  | 16       | 19.09         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 11       | 19.09         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 11       | 19.09         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 17       | 19.09         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 17       | 19.09         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 8        | 19.09         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 17       | 19.09         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 17       | 19.09         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 5        | 19.08         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 3        | 19.08         |
| (1,2761) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HD3 | 17       | 19.08         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 3        | 19.08         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 11       | 19.08         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 11       | 19.08         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 11       | 19.08         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 2        | 19.08         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 6        | 19.08         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 13       | 19.08         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 13       | 19.08         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 16       | 19.08         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 9        | 19.07         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 9        | 19.07         |
| (1,881)  | 1:A:3:PRO:HB3  | 1:A:35:HIS:HB2 | 20       | 19.07         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 14       | 19.07         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 3        | 19.07         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 6        | 19.07         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG2 | 17       | 19.07         |
| (1,2879) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HG3 | 17       | 19.07         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 19       | 19.07         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 5        | 19.07         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 6        | 19.07         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 9        | 19.07         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 2        | 19.07         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 7        | 19.07         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 4        | 19.07         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 4        | 19.06         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2 | 11       | 19.06         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2 | 11       | 19.06         |
| (1,829)  | 1:A:3:PRO:HB2  | 1:A:35:HIS:H   | 20       | 19.06         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 20       | 19.06         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 6        | 19.06         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 15       | 19.06         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 4        | 19.06         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 8        | 19.06         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 8        | 19.06         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 9        | 19.06         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 20       | 19.06         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 9        | 19.06         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 14       | 19.06         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 15       | 19.06         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 15       | 19.06         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 9        | 19.06         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 11       | 19.06         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 11       | 19.06         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 8        | 19.05         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 8        | 19.05         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 5        | 19.05         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 12       | 19.05         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 13       | 19.05         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 15       | 19.05         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 14       | 19.05         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 6        | 19.05         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 12       | 19.05         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 5        | 19.05         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 15       | 19.05         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 3        | 19.05         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2 | 4        | 19.05         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 10       | 19.05         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 2        | 19.05         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 13       | 19.05         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 14       | 19.04         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 14       | 19.04         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 14       | 19.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 20       | 19.04         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 20       | 19.04         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 11       | 19.04         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 13       | 19.04         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 3        | 19.04         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 8        | 19.04         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 7        | 19.04         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 8        | 19.04         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 15       | 19.04         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 11       | 19.04         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 17       | 19.04         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 17       | 19.04         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 17       | 19.04         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 18       | 19.03         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 10       | 19.03         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 10       | 19.03         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 7        | 19.03         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 12       | 19.03         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 1        | 19.03         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 11       | 19.03         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 12       | 19.03         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 9        | 19.03         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 12       | 19.03         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 4        | 19.03         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 8        | 19.03         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 13       | 19.03         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 7        | 19.03         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 11       | 19.02         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 3        | 19.02         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 10       | 19.02         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 1        | 19.02         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 15       | 19.02         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 18       | 19.02         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 19       | 19.02         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 20       | 19.02         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 2        | 19.02         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 19       | 19.02         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 18       | 19.01         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 18       | 19.01         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 20       | 19.01         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 20       | 19.01         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 6        | 19.01         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 14       | 19.01         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 18       | 19.01         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 18       | 19.01         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 19       | 19.01         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 19       | 19.01         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 10       | 19.01         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 13       | 19.01         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 8        | 19.01         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 10       | 19.01         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 16       | 19.01         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 4        | 19.01         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 12       | 19.01         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 15       | 19.01         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 5        | 19.01         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 14       | 19.01         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 12       | 19.01         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 4        | 19.01         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 15       | 19.01         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3 | 14       | 19.0          |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 11       | 19.0          |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 12       | 19.0          |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 10       | 19.0          |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 18       | 19.0          |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 8        | 19.0          |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 13       | 19.0          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 3        | 19.0          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 3        | 19.0          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 3        | 19.0          |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 1        | 19.0          |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 13       | 19.0          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 15       | 19.0          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 15       | 19.0          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 15       | 19.0          |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 9        | 19.0          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 17       | 19.0          |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 17       | 19.0          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 4        | 19.0          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 4        | 19.0          |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 6        | 19.0          |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 19       | 18.99         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 19       | 18.99         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 19       | 18.99         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 12       | 18.99         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 20       | 18.99         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 9        | 18.99         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 9        | 18.99         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 1        | 18.99         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 15       | 18.99         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 11       | 18.99         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 20       | 18.99         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 5        | 18.99         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 1        | 18.99         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 6        | 18.99         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 15       | 18.99         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 9        | 18.99         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 11       | 18.99         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 7        | 18.99         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 7        | 18.99         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 12       | 18.99         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 16       | 18.98         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG2 | 16       | 18.98         |
| (1,700)  | 1:A:2:GLY:HA2  | 1:A:30:PRO:HG3 | 16       | 18.98         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 5        | 18.98         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 18       | 18.98         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 19       | 18.98         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2 | 7        | 18.98         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3 | 7        | 18.98         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 3        | 18.98         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 13       | 18.98         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 14       | 18.98         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 14       | 18.98         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 2        | 18.97         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 3        | 18.97         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 9        | 18.97         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 15       | 18.97         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 16       | 18.97         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 6        | 18.97         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 20       | 18.97         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 2        | 18.97         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 3        | 18.97         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 18       | 18.97         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 14       | 18.97         |
| (1,2277) | 1:A:9:PRO:HB3  | 1:A:29:GLY:H   | 17       | 18.97         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 13       | 18.97         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 12       | 18.97         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 1        | 18.97         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 11       | 18.97         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 15       | 18.97         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 15       | 18.97         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 4        | 18.97         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3 | 4        | 18.97         |
| (1,827)  | 1:A:3:PRO:HB2  | 1:A:34:ALA:H   | 7        | 18.96         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 10       | 18.96         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 18       | 18.96         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 19       | 18.96         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 4        | 18.96         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 5        | 18.96         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 19       | 18.96         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 19       | 18.96         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 14       | 18.95         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1 | 15       | 18.95         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 1        | 18.95         |
| (1,2953) | 1:A:11:TRP:HZ2 | 1:A:31:LYS:HG3 | 14       | 18.95         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 11       | 18.95         |
| (1,2877) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HA  | 17       | 18.95         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 18       | 18.95         |
| (1,2815) | 1:A:11:TRP:HE3 | 1:A:31:LYS:H   | 16       | 18.95         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 8        | 18.95         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 11       | 18.95         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 13       | 18.95         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 2        | 18.95         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 14       | 18.95         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H   | 16       | 18.95         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 6        | 18.95         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 10       | 18.95         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 6        | 18.95         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 17       | 18.95         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 9        | 18.95         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 9        | 18.95         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 19       | 18.94         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 3        | 18.94         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 19       | 18.94         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 20       | 18.94         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 6        | 18.94         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 2        | 18.94         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 16       | 18.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 6        | 18.94         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA   | 10       | 18.94         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 1        | 18.94         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3  | 1        | 18.94         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2  | 6        | 18.93         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 12       | 18.93         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 5        | 18.93         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3  | 9        | 18.93         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA   | 12       | 18.93         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3  | 17       | 18.93         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2  | 4        | 18.93         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2  | 8        | 18.93         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3  | 8        | 18.93         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3  | 10       | 18.93         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3  | 16       | 18.93         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3  | 3        | 18.93         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 17       | 18.93         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2  | 6        | 18.93         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2  | 4        | 18.92         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2  | 11       | 18.92         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 4        | 18.92         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 8        | 18.92         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 16       | 18.92         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 8        | 18.92         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H    | 7        | 18.92         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA   | 9        | 18.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 17       | 18.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 17       | 18.92         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA   | 10       | 18.92         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 1        | 18.92         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 18       | 18.91         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 19       | 18.91         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3  | 9        | 18.91         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 12       | 18.91         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2  | 3        | 18.91         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2  | 4        | 18.91         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 17       | 18.91         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 17       | 18.91         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H    | 5        | 18.91         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H    | 5        | 18.9          |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 8        | 18.9          |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 7        | 18.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 4        | 18.9          |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3  | 7        | 18.9          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 3        | 18.9          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 3        | 18.9          |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2  | 11       | 18.9          |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 8        | 18.9          |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 10       | 18.9          |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA   | 3        | 18.9          |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 12       | 18.9          |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3  | 6        | 18.9          |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3  | 14       | 18.9          |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA   | 9        | 18.9          |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H    | 12       | 18.89         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 4        | 18.89         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 4        | 18.89         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 12       | 18.89         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 5        | 18.89         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 10       | 18.89         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 3        | 18.88         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 4        | 18.88         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 14       | 18.88         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2  | 2        | 18.88         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H    | 6        | 18.88         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 10       | 18.88         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3  | 7        | 18.88         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2  | 3        | 18.88         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3  | 3        | 18.88         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 3        | 18.88         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 3        | 18.88         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 14       | 18.88         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 14       | 18.88         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 16       | 18.88         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H    | 8        | 18.88         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 4        | 18.88         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 11       | 18.88         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 14       | 18.88         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 14       | 18.88         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2  | 13       | 18.88         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3  | 13       | 18.88         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H    | 11       | 18.87         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 4        | 18.87         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 7        | 18.87         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 9        | 18.87         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA   | 17       | 18.87         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H    | 7        | 18.87         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3  | 4        | 18.87         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2  | 1        | 18.87         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 12       | 18.86         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 2        | 18.86         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 20       | 18.86         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 2        | 18.86         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 17       | 18.86         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 6        | 18.86         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 6        | 18.86         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3  | 3        | 18.86         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2  | 18       | 18.86         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3  | 18       | 18.86         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2  | 20       | 18.86         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3  | 20       | 18.86         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H    | 2        | 18.86         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 18       | 18.86         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 18       | 18.86         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 2        | 18.86         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA   | 14       | 18.86         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2  | 10       | 18.86         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2  | 5        | 18.85         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 16       | 18.85         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H    | 7        | 18.85         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2  | 4        | 18.85         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2  | 16       | 18.85         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3  | 16       | 18.85         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB2  | 19       | 18.85         |
| (1,2812) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HB3  | 19       | 18.85         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 6        | 18.85         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 6        | 18.85         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 10       | 18.85         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 10       | 18.85         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H    | 4        | 18.85         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA   | 5        | 18.85         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA   | 2        | 18.85         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA   | 3        | 18.85         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3  | 10       | 18.85         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 15       | 18.85         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 20       | 18.85         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 20       | 18.85         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 19       | 18.85         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 17       | 18.84         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 17       | 18.84         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 20       | 18.84         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 1        | 18.84         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 10       | 18.84         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 3        | 18.84         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 12       | 18.84         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 12       | 18.84         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 6        | 18.84         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 1        | 18.84         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 3        | 18.84         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 12       | 18.84         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 1        | 18.84         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 7        | 18.84         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 6        | 18.84         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 10       | 18.84         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 4        | 18.84         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 9        | 18.84         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 3        | 18.84         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 3        | 18.84         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 15       | 18.83         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 5        | 18.83         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 5        | 18.83         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 15       | 18.83         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 15       | 18.83         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 2        | 18.83         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 4        | 18.83         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 7        | 18.83         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 10       | 18.83         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 3        | 18.83         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 6        | 18.83         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 12       | 18.83         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 12       | 18.83         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 9        | 18.82         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 9        | 18.82         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 12       | 18.82         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 12       | 18.82         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 6        | 18.82         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 14       | 18.82         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 9        | 18.82         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 16       | 18.82         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 16       | 18.82         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 16       | 18.82         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 7        | 18.82         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 18       | 18.82         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 19       | 18.82         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 4        | 18.82         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 5        | 18.82         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 14       | 18.82         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 13       | 18.82         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 2        | 18.81         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 10       | 18.81         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 12       | 18.81         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 12       | 18.81         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 5        | 18.81         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 8        | 18.81         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 8        | 18.81         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 10       | 18.81         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 10       | 18.81         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 5        | 18.81         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 7        | 18.81         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 14       | 18.81         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 17       | 18.81         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 17       | 18.81         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 2        | 18.81         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 12       | 18.81         |
| (1,1038) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB2 | 15       | 18.81         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 13       | 18.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 17       | 18.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 17       | 18.8          |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 12       | 18.8          |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 7        | 18.8          |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 7        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 1        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 1        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 2        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 2        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 8        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 8        | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 13       | 18.8          |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 13       | 18.8          |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 12       | 18.8          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 12       | 18.8          |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 13       | 18.8          |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 9        | 18.8          |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 3        | 18.8          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 14       | 18.8          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 14       | 18.8          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 14       | 18.8          |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 4        | 18.79         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 14       | 18.79         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 18       | 18.79         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 19       | 18.79         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 20       | 18.79         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 6        | 18.79         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 6        | 18.79         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 4        | 18.79         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 4        | 18.79         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 11       | 18.79         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 11       | 18.79         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 8        | 18.79         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 15       | 18.79         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H   | 16       | 18.79         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 18       | 18.79         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 18       | 18.79         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 5        | 18.79         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 20       | 18.79         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 3        | 18.79         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 3        | 18.79         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 3        | 18.79         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 10       | 18.79         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 12       | 18.79         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 13       | 18.79         |
| (1,1392) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HE1 | 1        | 18.79         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 15       | 18.79         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 9        | 18.79         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 6        | 18.79         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 6        | 18.79         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 1        | 18.78         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 17       | 18.78         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 11       | 18.78         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 8        | 18.78         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 10       | 18.78         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 7        | 18.78         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 5        | 18.78         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 13       | 18.78         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 8        | 18.78         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 20       | 18.78         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2 | 11       | 18.77         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 1        | 18.77         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 8        | 18.77         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 14       | 18.77         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 20       | 18.77         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 16       | 18.77         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 14       | 18.77         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 14       | 18.77         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 7        | 18.77         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 8        | 18.77         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 9        | 18.77         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 11       | 18.77         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 4        | 18.77         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 7        | 18.77         |
| (1,1050) | 1:A:3:PRO:HD3  | 1:A:35:HIS:H   | 20       | 18.77         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 13       | 18.76         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 8        | 18.76         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 10       | 18.76         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 3        | 18.76         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 2        | 18.76         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 2        | 18.76         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 10       | 18.76         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 3        | 18.76         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 3        | 18.76         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 20       | 18.76         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 7        | 18.76         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 7        | 18.76         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 20       | 18.76         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 17       | 18.76         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 13       | 18.75         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 18       | 18.75         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 13       | 18.75         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 5        | 18.75         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 5        | 18.75         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 9        | 18.75         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 9        | 18.75         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 15       | 18.75         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 9        | 18.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 9        | 18.75         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 9        | 18.75         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 3        | 18.75         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 17       | 18.75         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 17       | 18.75         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 17       | 18.75         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 3        | 18.75         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 1        | 18.75         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 15       | 18.75         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 15       | 18.75         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 14       | 18.75         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 7        | 18.74         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 16       | 18.74         |
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 19       | 18.74         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 14       | 18.74         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 17       | 18.74         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 18       | 18.74         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 19       | 18.74         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 1        | 18.74         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 13       | 18.74         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 12       | 18.74         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 17       | 18.74         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 17       | 18.74         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 17       | 18.74         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 8        | 18.74         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 15       | 18.74         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 6        | 18.74         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 8        | 18.74         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 12       | 18.74         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 11       | 18.73         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 2        | 18.73         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 3        | 18.73         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 6        | 18.73         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 8        | 18.73         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 15       | 18.73         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 9        | 18.73         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 16       | 18.73         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 16       | 18.73         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 15       | 18.72         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 20       | 18.72         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 4        | 18.72         |
| (1,2709) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HD3 | 16       | 18.72         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 5        | 18.72         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 5        | 18.72         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 7        | 18.72         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 11       | 18.72         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 14       | 18.72         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 15       | 18.72         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 16       | 18.72         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 18       | 18.72         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 19       | 18.72         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 9        | 18.72         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 10       | 18.72         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 16       | 18.72         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 20       | 18.72         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 20       | 18.72         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 10       | 18.72         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 8        | 18.72         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 1        | 18.72         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 17       | 18.72         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 17       | 18.72         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 14       | 18.72         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 6        | 18.71         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1 | 14       | 18.71         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 1        | 18.71         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 1        | 18.71         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 10       | 18.71         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 1        | 18.71         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 9        | 18.71         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 11       | 18.71         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 20       | 18.71         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 9        | 18.71         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 1        | 18.71         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 10       | 18.71         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 12       | 18.7          |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 11       | 18.7          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 16       | 18.7          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 16       | 18.7          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 7        | 18.7          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 7        | 18.7          |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 7        | 18.7          |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 11       | 18.7          |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 14       | 18.7          |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 18       | 18.7          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 18       | 18.7          |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 9        | 18.7          |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 11       | 18.7          |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 5        | 18.7          |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 5        | 18.7          |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 7        | 18.7          |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 1        | 18.69         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 5        | 18.69         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 10       | 18.69         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 3        | 18.69         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 3        | 18.69         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 9        | 18.69         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 9        | 18.69         |
| (1,1904) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HA  | 19       | 18.69         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 19       | 18.69         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 8        | 18.69         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 11       | 18.69         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 5        | 18.69         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 16       | 18.69         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 16       | 18.69         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 16       | 18.69         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 14       | 18.68         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 2        | 18.68         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 1        | 18.68         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 15       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 15       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 15       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 16       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 16       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 18       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 18       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 19       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 19       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 20       | 18.68         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 20       | 18.68         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 6        | 18.68         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 6        | 18.68         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 13       | 18.68         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 16       | 18.68         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 15       | 18.68         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 15       | 18.68         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 15       | 18.67         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3023) | 1:A:12:GLY:H   | 1:A:30:PRO:HD3 | 17       | 18.67         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 6        | 18.67         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 1        | 18.67         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 11       | 18.67         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 11       | 18.67         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 9        | 18.67         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 17       | 18.67         |
| (1,2207) | 1:A:9:PRO:HB2  | 1:A:17:GLY:HA2 | 12       | 18.67         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 7        | 18.67         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 2        | 18.67         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 15       | 18.67         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3 | 15       | 18.67         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 11       | 18.67         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 15       | 18.66         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 9        | 18.66         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 2        | 18.66         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 15       | 18.66         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 11       | 18.66         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 11       | 18.66         |
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 17       | 18.66         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 20       | 18.66         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 20       | 18.66         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 13       | 18.66         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 8        | 18.66         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 14       | 18.66         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 5        | 18.66         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 12       | 18.66         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 17       | 18.66         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 2        | 18.65         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 2        | 18.65         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 10       | 18.65         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 10       | 18.65         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 13       | 18.65         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 13       | 18.65         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 15       | 18.65         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 15       | 18.65         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 2        | 18.65         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 7        | 18.65         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 15       | 18.64         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 10       | 18.64         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 7        | 18.64         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 11       | 18.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H    | 15       | 18.64         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2  | 1        | 18.64         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3  | 1        | 18.64         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2  | 4        | 18.64         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3  | 4        | 18.64         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3  | 1        | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 16       | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 16       | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 18       | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 18       | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2  | 19       | 18.64         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3  | 19       | 18.64         |
| (1,2340) | 1:A:9:PRO:HG2  | 1:A:28:SER:HB2  | 17       | 18.64         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2  | 1        | 18.64         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2  | 14       | 18.64         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3  | 14       | 18.64         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2  | 15       | 18.63         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 17       | 18.63         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 17       | 18.63         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 17       | 18.63         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3  | 15       | 18.63         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H    | 2        | 18.63         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2  | 3        | 18.63         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3  | 3        | 18.63         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 20       | 18.63         |
| (1,2573) | 1:A:10:GLY:HA3 | 1:A:34:ALA:H    | 17       | 18.63         |
| (1,2516) | 1:A:10:GLY:HA2 | 1:A:32:TYR:H    | 17       | 18.63         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H    | 12       | 18.63         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 8        | 18.63         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 13       | 18.63         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 6        | 18.63         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3  | 6        | 18.63         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1  | 17       | 18.63         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 6        | 18.62         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 8        | 18.62         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H    | 9        | 18.62         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 3        | 18.62         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 6        | 18.62         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H    | 18       | 18.62         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H    | 20       | 18.62         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H    | 13       | 18.62         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 15       | 18.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 17       | 18.62         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 18       | 18.61         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 18       | 18.61         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 7        | 18.61         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 7        | 18.61         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 4        | 18.61         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 4        | 18.61         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 14       | 18.61         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 16       | 18.61         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 19       | 18.61         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 11       | 18.61         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 15       | 18.61         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 15       | 18.61         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 15       | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 1        | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 1        | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 11       | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 11       | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 12       | 18.61         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 12       | 18.61         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 17       | 18.61         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 17       | 18.61         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 8        | 18.61         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 2        | 18.61         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 15       | 18.61         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 12       | 18.61         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 12       | 18.61         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 8        | 18.61         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 5        | 18.6          |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 16       | 18.6          |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 16       | 18.6          |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 2        | 18.6          |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 2        | 18.6          |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 8        | 18.6          |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 18       | 18.6          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 11       | 18.6          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 11       | 18.6          |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 17       | 18.6          |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 17       | 18.6          |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1 | 8        | 18.59         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 2        | 18.59         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 12       | 18.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2629) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB2 | 15       | 18.59         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 2        | 18.59         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 15       | 18.59         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 4        | 18.59         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 4        | 18.59         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 18       | 18.59         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 1        | 18.59         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 18       | 18.58         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 10       | 18.58         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 10       | 18.58         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 4        | 18.58         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 6        | 18.58         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 6        | 18.58         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 15       | 18.58         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 14       | 18.58         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 5        | 18.58         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 6        | 18.58         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 6        | 18.58         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 16       | 18.58         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 4        | 18.58         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 11       | 18.58         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2 | 15       | 18.58         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 5        | 18.58         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 14       | 18.58         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 3        | 18.58         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 20       | 18.58         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 9        | 18.57         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 16       | 18.57         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 20       | 18.57         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 6        | 18.57         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 6        | 18.57         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 5        | 18.57         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 13       | 18.57         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 13       | 18.57         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 20       | 18.57         |
| (1,2574) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HA  | 7        | 18.57         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 11       | 18.57         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 1        | 18.57         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 3        | 18.57         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 3        | 18.57         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 16       | 18.56         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 16       | 18.56         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 16       | 18.56         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 5        | 18.56         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 1        | 18.56         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 1        | 18.56         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 7        | 18.56         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 7        | 18.56         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 16       | 18.56         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 9        | 18.56         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 5        | 18.56         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 5        | 18.56         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 10       | 18.56         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 10       | 18.56         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 12       | 18.56         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 12       | 18.56         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 18       | 18.55         |
| (1,818)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:H   | 19       | 18.55         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 14       | 18.55         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 18       | 18.55         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 19       | 18.55         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 20       | 18.55         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 13       | 18.55         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 13       | 18.55         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 13       | 18.55         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 5        | 18.55         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 5        | 18.55         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 18       | 18.55         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 19       | 18.55         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2 | 20       | 18.55         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3 | 20       | 18.55         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 16       | 18.55         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 20       | 18.55         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 4        | 18.55         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 7        | 18.55         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 7        | 18.55         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 7        | 18.55         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 7        | 18.55         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 8        | 18.55         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 19       | 18.55         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 10       | 18.55         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 10       | 18.55         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 15       | 18.55         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 15       | 18.55         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 17       | 18.54         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 19       | 18.54         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 20       | 18.54         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 5        | 18.54         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 5        | 18.54         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 3        | 18.54         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 3        | 18.54         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 9        | 18.54         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 9        | 18.54         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 9        | 18.54         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 2        | 18.54         |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 6        | 18.54         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 3        | 18.54         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 3        | 18.54         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 16       | 18.54         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 18       | 18.54         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 19       | 18.54         |
| (1,1606) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HB3 | 20       | 18.54         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 4        | 18.54         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1 | 19       | 18.54         |
| (1,2921) | 1:A:11:TRP:HZ3 | 1:A:29:GLY:H   | 16       | 18.53         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 15       | 18.53         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 15       | 18.53         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 16       | 18.53         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 6        | 18.53         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 7        | 18.53         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 20       | 18.53         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 16       | 18.53         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 16       | 18.53         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 1        | 18.53         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 1        | 18.53         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 17       | 18.52         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 10       | 18.52         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 17       | 18.52         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 3        | 18.52         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 3        | 18.52         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 1        | 18.52         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 13       | 18.52         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 2        | 18.52         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 15       | 18.52         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 4        | 18.52         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 6        | 18.52         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 6        | 18.52         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 3        | 18.52         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 16       | 18.52         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 2        | 18.52         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 17       | 18.52         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 3        | 18.52         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 3        | 18.52         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 5        | 18.52         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 5        | 18.51         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 5        | 18.51         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 16       | 18.51         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 11       | 18.51         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 11       | 18.51         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 11       | 18.51         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 1        | 18.51         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 8        | 18.51         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 8        | 18.51         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 3        | 18.51         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 3        | 18.51         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 10       | 18.51         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 9        | 18.51         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 9        | 18.51         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 11       | 18.51         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 11       | 18.51         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 4        | 18.51         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 17       | 18.51         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 17       | 18.51         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 14       | 18.51         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 14       | 18.51         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 18       | 18.51         |
| (1,1842) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HA  | 19       | 18.51         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 20       | 18.51         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 17       | 18.51         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 17       | 18.51         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 13       | 18.51         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 17       | 18.5          |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 16       | 18.5          |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 16       | 18.5          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 17       | 18.5          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 17       | 18.5          |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 12       | 18.5          |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 20       | 18.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 20       | 18.5          |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 6        | 18.5          |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 6        | 18.5          |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 20       | 18.5          |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 11       | 18.5          |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 16       | 18.5          |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 8        | 18.5          |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 8        | 18.5          |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 14       | 18.5          |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 18       | 18.49         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 19       | 18.49         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H   | 13       | 18.49         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 9        | 18.49         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 18       | 18.49         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 19       | 18.49         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 10       | 18.49         |
| (1,1918) | 1:A:6:GLN:HE22 | 1:A:34:ALA:HA  | 7        | 18.49         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 12       | 18.49         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 17       | 18.48         |
| (1,944)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:HA  | 7        | 18.48         |
| (1,944)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:HA  | 7        | 18.48         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 6        | 18.48         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 16       | 18.48         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 18       | 18.48         |
| (1,3072) | 1:A:12:GLY:HA3 | 1:A:30:PRO:HB2 | 19       | 18.48         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 7        | 18.48         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 7        | 18.48         |
| (1,2479) | 1:A:10:GLY:H   | 1:A:29:GLY:HA3 | 17       | 18.48         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 16       | 18.48         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 2        | 18.48         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 9        | 18.48         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 9        | 18.48         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 3        | 18.48         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 13       | 18.48         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 13       | 18.48         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 6        | 18.48         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 6        | 18.48         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 6        | 18.47         |
| (1,2931) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:H   | 16       | 18.47         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2 | 1        | 18.47         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 13       | 18.47         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 13       | 18.47         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 14       | 18.47         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 14       | 18.47         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 7        | 18.47         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 7        | 18.47         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 7        | 18.47         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 6        | 18.47         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 17       | 18.47         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 12       | 18.46         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 17       | 18.46         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 17       | 18.46         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 13       | 18.46         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 13       | 18.46         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 7        | 18.46         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG2 | 17       | 18.46         |
| (1,2604) | 1:A:11:TRP:H   | 1:A:30:PRO:HG3 | 17       | 18.46         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 12       | 18.46         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 12       | 18.46         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 12       | 18.46         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 13       | 18.46         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 13       | 18.46         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 13       | 18.46         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 20       | 18.46         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 20       | 18.46         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 7        | 18.46         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 7        | 18.46         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 8        | 18.45         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 11       | 18.45         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 11       | 18.45         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 5        | 18.45         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 14       | 18.45         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 12       | 18.45         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 16       | 18.45         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 16       | 18.45         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 12       | 18.45         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 12       | 18.45         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 10       | 18.45         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 14       | 18.45         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 4        | 18.45         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 2        | 18.45         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 2        | 18.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 7        | 18.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 7        | 18.45         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 7        | 18.45         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 19       | 18.44         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 19       | 18.44         |
| (1,878)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:HB2 | 7        | 18.44         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 5        | 18.44         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 4        | 18.44         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 4        | 18.44         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 5        | 18.44         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 5        | 18.44         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 12       | 18.44         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 10       | 18.44         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 10       | 18.44         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 4        | 18.44         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 17       | 18.44         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 7        | 18.44         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 7        | 18.44         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 13       | 18.44         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 13       | 18.44         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 3        | 18.44         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 4        | 18.44         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 6        | 18.44         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 6        | 18.44         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3 | 19       | 18.44         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 12       | 18.43         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 7        | 18.43         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 7        | 18.43         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 5        | 18.43         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 5        | 18.43         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 16       | 18.43         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 16       | 18.43         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 3        | 18.43         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 19       | 18.43         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 18       | 18.43         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 18       | 18.43         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 4        | 18.43         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 4        | 18.43         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 10       | 18.43         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 10       | 18.43         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 9        | 18.42         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 2        | 18.42         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 2        | 18.42         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 14       | 18.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 14       | 18.42         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 9        | 18.42         |
| (1,2602) | 1:A:11:TRP:H   | 1:A:29:GLY:HA2 | 17       | 18.42         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 2        | 18.42         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 2        | 18.42         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 2        | 18.42         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 14       | 18.42         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 15       | 18.42         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 17       | 18.42         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 1        | 18.42         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 7        | 18.42         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 18       | 18.42         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 5        | 18.42         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 5        | 18.42         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 5        | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 5        | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 5        | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 10       | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 10       | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2 | 19       | 18.42         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3 | 19       | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 1        | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 1        | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 6        | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 6        | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 15       | 18.42         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 15       | 18.42         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 12       | 18.42         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 2        | 18.42         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H   | 16       | 18.42         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 8        | 18.42         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 8        | 18.42         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 12       | 18.42         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 12       | 18.42         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 10       | 18.42         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 12       | 18.41         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 2        | 18.41         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 2        | 18.41         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 19       | 18.41         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 17       | 18.41         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 20       | 18.41         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 12       | 18.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 15       | 18.41         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 19       | 18.41         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 10       | 18.41         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3  | 17       | 18.41         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3  | 4        | 18.41         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 17       | 18.4          |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 7        | 18.4          |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2  | 13       | 18.4          |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3  | 13       | 18.4          |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 20       | 18.4          |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 6        | 18.4          |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 6        | 18.4          |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 11       | 18.4          |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 11       | 18.4          |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 6        | 18.4          |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 5        | 18.4          |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA   | 6        | 18.4          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 16       | 18.4          |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3  | 16       | 18.4          |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3  | 16       | 18.4          |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3  | 4        | 18.39         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA   | 20       | 18.39         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA   | 20       | 18.39         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 17       | 18.39         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 17       | 18.39         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 13       | 18.39         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 6        | 18.39         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 6        | 18.39         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1  | 1        | 18.39         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2  | 1        | 18.39         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3  | 1        | 18.39         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 16       | 18.39         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 16       | 18.39         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 16       | 18.39         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 9        | 18.39         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 9        | 18.39         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA   | 11       | 18.39         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 6        | 18.39         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 6        | 18.39         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 10       | 18.39         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 10       | 18.39         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 11       | 18.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 11       | 18.39         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 14       | 18.38         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 14       | 18.38         |
| (1,820)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HG3  | 16       | 18.38         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 20       | 18.38         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 14       | 18.38         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 5        | 18.38         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 6        | 18.38         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 11       | 18.38         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 20       | 18.38         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 20       | 18.38         |
| (1,2817) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB2  | 15       | 18.38         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2  | 10       | 18.38         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3  | 10       | 18.38         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 2        | 18.38         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2  | 10       | 18.38         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3  | 10       | 18.38         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3  | 2        | 18.38         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3  | 11       | 18.38         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H    | 5        | 18.38         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 16       | 18.38         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 13       | 18.38         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 1        | 18.38         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 4        | 18.38         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 10       | 18.38         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 14       | 18.38         |
| (1,1388) | 1:A:4:ASN:HD22 | 1:A:34:ALA:H    | 7        | 18.38         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 12       | 18.38         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 20       | 18.37         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 20       | 18.37         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 5        | 18.37         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 17       | 18.37         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 10       | 18.37         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 10       | 18.37         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 17       | 18.37         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 5        | 18.37         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 14       | 18.37         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG2  | 2        | 18.37         |
| (1,1906) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HG3  | 2        | 18.37         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 1        | 18.37         |
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3  | 18       | 18.37         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 1        | 18.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 1        | 18.36         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 1        | 18.36         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 6        | 18.36         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 20       | 18.36         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 10       | 18.36         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB2 | 17       | 18.36         |
| (1,2878) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HB3 | 17       | 18.36         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 4        | 18.36         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 8        | 18.36         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 8        | 18.36         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 15       | 18.36         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 15       | 18.36         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 15       | 18.36         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 2        | 18.36         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 8        | 18.36         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 8        | 18.36         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 10       | 18.36         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 6        | 18.36         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 20       | 18.36         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 12       | 18.36         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 12       | 18.36         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 5        | 18.36         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 5        | 18.36         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 3        | 18.35         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 17       | 18.35         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 6        | 18.35         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 9        | 18.35         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 9        | 18.35         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 15       | 18.35         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 15       | 18.35         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 4        | 18.35         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 4        | 18.35         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 10       | 18.35         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 6        | 18.35         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 12       | 18.35         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 13       | 18.35         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 15       | 18.35         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 20       | 18.35         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 20       | 18.35         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 14       | 18.35         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 2        | 18.35         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 2        | 18.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 15       | 18.35         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2  | 18       | 18.35         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3  | 18       | 18.35         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 3        | 18.35         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2  | 12       | 18.34         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 9        | 18.34         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 7        | 18.34         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 7        | 18.34         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 7        | 18.34         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 7        | 18.34         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 8        | 18.34         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 10       | 18.34         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 10       | 18.34         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 11       | 18.34         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 11       | 18.34         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 13       | 18.34         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 13       | 18.34         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1  | 3        | 18.34         |
| (1,1051) | 1:A:3:PRO:HD3  | 1:A:35:HIS:HE1  | 1        | 18.34         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 12       | 18.33         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 12       | 18.33         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 17       | 18.33         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 17       | 18.33         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 1        | 18.33         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 1        | 18.33         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 5        | 18.33         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 5        | 18.33         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 5        | 18.33         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3  | 16       | 18.33         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 6        | 18.33         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 15       | 18.33         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2  | 9        | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 5        | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 5        | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 16       | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 16       | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 18       | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 18       | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2  | 19       | 18.33         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3  | 19       | 18.33         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 13       | 18.33         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2  | 17       | 18.32         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 2        | 18.32         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 7        | 18.32         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 6        | 18.32         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 6        | 18.32         |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA  | 16       | 18.32         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 8        | 18.32         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 14       | 18.32         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 4        | 18.32         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 15       | 18.32         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 15       | 18.32         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 15       | 18.32         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 6        | 18.32         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 11       | 18.32         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 16       | 18.32         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 17       | 18.32         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 9        | 18.32         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 5        | 18.32         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 19       | 18.31         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 19       | 18.31         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 15       | 18.31         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 4        | 18.31         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 3        | 18.31         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 5        | 18.31         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 15       | 18.31         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 15       | 18.31         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 8        | 18.31         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 8        | 18.31         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 13       | 18.31         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 15       | 18.31         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 9        | 18.31         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 9        | 18.31         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 8        | 18.31         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 14       | 18.31         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 3        | 18.31         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 7        | 18.31         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 7        | 18.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 17       | 18.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 17       | 18.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 17       | 18.31         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 10       | 18.31         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG2 | 19       | 18.31         |
| (1,1374) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HG3 | 19       | 18.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1040) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HB3  | 2        | 18.31         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2  | 1        | 18.3          |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 8        | 18.3          |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 8        | 18.3          |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 16       | 18.3          |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 14       | 18.3          |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 13       | 18.3          |
| (1,2827) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HA   | 7        | 18.3          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 11       | 18.3          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 11       | 18.3          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 14       | 18.3          |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 14       | 18.3          |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3  | 12       | 18.3          |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2  | 12       | 18.3          |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3  | 12       | 18.3          |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 7        | 18.3          |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 11       | 18.3          |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 18       | 18.3          |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 20       | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 3        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 3        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 5        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 5        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 9        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 9        | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 14       | 18.3          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 14       | 18.3          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 2        | 18.3          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 2        | 18.3          |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2  | 13       | 18.29         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2  | 13       | 18.29         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 15       | 18.29         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 2        | 18.29         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 2        | 18.29         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2  | 12       | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 3        | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 3        | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 5        | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 5        | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 14       | 18.29         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 14       | 18.29         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 1        | 18.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 10       | 18.29         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H    | 10       | 18.29         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2  | 8        | 18.29         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3  | 8        | 18.29         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 7        | 18.29         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 2        | 18.29         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 15       | 18.29         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 10       | 18.29         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 10       | 18.29         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2  | 6        | 18.28         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 11       | 18.28         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 11       | 18.28         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 13       | 18.28         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 13       | 18.28         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 10       | 18.28         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 3        | 18.28         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 3        | 18.28         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 12       | 18.28         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 12       | 18.28         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2  | 10       | 18.28         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3  | 10       | 18.28         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 15       | 18.28         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3  | 19       | 18.28         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 7        | 18.28         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 2        | 18.28         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 14       | 18.28         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 11       | 18.28         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA   | 5        | 18.28         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 1        | 18.28         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 3        | 18.28         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 3        | 18.28         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 3        | 18.28         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2  | 14       | 18.28         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3  | 14       | 18.28         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2  | 18       | 18.27         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3  | 18       | 18.27         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 12       | 18.27         |
| (1,2881) | 1:A:11:TRP:HE1 | 1:A:31:LYS:H    | 17       | 18.27         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 9        | 18.27         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 9        | 18.27         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 10       | 18.27         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 10       | 18.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 7        | 18.27         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 1        | 18.27         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 1        | 18.27         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 1        | 18.27         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 2        | 18.27         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 5        | 18.27         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 6        | 18.27         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 15       | 18.27         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 9        | 18.27         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 9        | 18.27         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 8        | 18.27         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 13       | 18.27         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 7        | 18.27         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 14       | 18.27         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 8        | 18.27         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 8        | 18.27         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 4        | 18.27         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 4        | 18.27         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 7        | 18.26         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1 | 14       | 18.26         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 9        | 18.26         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 3        | 18.26         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 8        | 18.26         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 8        | 18.26         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 13       | 18.26         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 13       | 18.26         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 17       | 18.26         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 17       | 18.26         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 12       | 18.26         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 7        | 18.26         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 15       | 18.26         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 15       | 18.26         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 3        | 18.26         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 4        | 18.26         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 11       | 18.26         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 3        | 18.26         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 10       | 18.26         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 18       | 18.26         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 19       | 18.26         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 12       | 18.26         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 12       | 18.26         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 7        | 18.26         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 8        | 18.26         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 4        | 18.26         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 13       | 18.26         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 13       | 18.26         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 14       | 18.26         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 6        | 18.25         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 10       | 18.25         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 11       | 18.25         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 11       | 18.25         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 19       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 18       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 18       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 19       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 19       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 20       | 18.25         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 20       | 18.25         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 9        | 18.25         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 9        | 18.25         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 4        | 18.25         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 4        | 18.25         |
| (1,2257) | 1:A:9:PRO:HB3  | 1:A:17:GLY:HA2 | 12       | 18.25         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG2 | 2        | 18.25         |
| (1,1844) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HG3 | 2        | 18.25         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 3        | 18.25         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 3        | 18.25         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 14       | 18.25         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 14       | 18.25         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 14       | 18.24         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 14       | 18.24         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 14       | 18.24         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 3        | 18.24         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 4        | 18.24         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 19       | 18.24         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 20       | 18.24         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 16       | 18.24         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 16       | 18.24         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 14       | 18.24         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 5        | 18.24         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 2        | 18.24         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 20       | 18.24         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 13       | 18.24         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 15       | 18.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3  | 15       | 18.24         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 10       | 18.24         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 10       | 18.24         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2  | 3        | 18.24         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3  | 3        | 18.24         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 12       | 18.24         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2  | 13       | 18.24         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 9        | 18.24         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3  | 13       | 18.23         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 17       | 18.23         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 17       | 18.23         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 7        | 18.23         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 7        | 18.23         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 7        | 18.23         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 1        | 18.23         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 1        | 18.23         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2  | 3        | 18.23         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 13       | 18.23         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 8        | 18.23         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1  | 2        | 18.23         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 11       | 18.23         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 2        | 18.23         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 8        | 18.23         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 18       | 18.23         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 16       | 18.23         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3  | 9        | 18.23         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 11       | 18.23         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3  | 12       | 18.23         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 10       | 18.23         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2  | 20       | 18.23         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3  | 20       | 18.23         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 2        | 18.23         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 13       | 18.23         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H    | 8        | 18.23         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2  | 14       | 18.23         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3  | 14       | 18.23         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 7        | 18.23         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 7        | 18.23         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 7        | 18.23         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 7        | 18.23         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 4        | 18.22         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 6        | 18.22         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 16       | 18.22         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 2        | 18.22         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 17       | 18.22         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 17       | 18.22         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 13       | 18.22         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 10       | 18.22         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 12       | 18.22         |
| (1,2567) | 1:A:10:GLY:HA3 | 1:A:32:TYR:H   | 17       | 18.22         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 18       | 18.22         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 18       | 18.22         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 6        | 18.22         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 8        | 18.22         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 2        | 18.22         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 2        | 18.22         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 19       | 18.22         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 19       | 18.22         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 1        | 18.22         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 18       | 18.22         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 18       | 18.22         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 19       | 18.22         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 19       | 18.22         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 3        | 18.22         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 3        | 18.22         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 3        | 18.22         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 20       | 18.22         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 2        | 18.22         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 2        | 18.22         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 17       | 18.22         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 17       | 18.22         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 17       | 18.22         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 2        | 18.21         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 8        | 18.21         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 12       | 18.21         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 7        | 18.21         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 10       | 18.21         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 7        | 18.21         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 20       | 18.21         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 8        | 18.21         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 9        | 18.21         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 16       | 18.21         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 16       | 18.21         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 16       | 18.21         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3  | 16       | 18.21         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H    | 12       | 18.21         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 12       | 18.21         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 9        | 18.21         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 8        | 18.21         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 8        | 18.21         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3  | 1        | 18.2          |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 6        | 18.2          |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 6        | 18.2          |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 2        | 18.2          |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 2        | 18.2          |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3  | 4        | 18.2          |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 7        | 18.2          |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 14       | 18.2          |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2  | 4        | 18.2          |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 5        | 18.2          |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H    | 14       | 18.2          |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 13       | 18.2          |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 17       | 18.2          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 9        | 18.2          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 9        | 18.2          |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 6        | 18.19         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 7        | 18.19         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 7        | 18.19         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1  | 4        | 18.19         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 9        | 18.19         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 4        | 18.19         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 4        | 18.19         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 5        | 18.19         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3  | 20       | 18.19         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 3        | 18.19         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 4        | 18.19         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 4        | 18.19         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3  | 16       | 18.19         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 12       | 18.19         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 12       | 18.19         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 13       | 18.19         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 13       | 18.19         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 13       | 18.19         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 3        | 18.19         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 3        | 18.19         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 3        | 18.19         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 3        | 18.19         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 7        | 18.19         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 12       | 18.19         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 12       | 18.19         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 4        | 18.19         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 5        | 18.18         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 9        | 18.18         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 1        | 18.18         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 1        | 18.18         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 5        | 18.18         |
| (1,2631) | 1:A:11:TRP:HA  | 1:A:31:LYS:HB3 | 18       | 18.18         |
| (1,2480) | 1:A:10:GLY:H   | 1:A:31:LYS:HG3 | 14       | 18.18         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 8        | 18.18         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 9        | 18.18         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 7        | 18.18         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 13       | 18.18         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 8        | 18.18         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 17       | 18.18         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 17       | 18.18         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 17       | 18.18         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 4        | 18.18         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 4        | 18.18         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 14       | 18.17         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 12       | 18.17         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 9        | 18.17         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 18       | 18.17         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 17       | 18.17         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 17       | 18.17         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 7        | 18.17         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 14       | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 3        | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 3        | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 5        | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 5        | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 14       | 18.17         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 14       | 18.17         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 9        | 18.17         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 6        | 18.17         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 12       | 18.17         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 12       | 18.17         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 15       | 18.17         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 15       | 18.17         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 14       | 18.17         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 14       | 18.17         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 3        | 18.17         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 13       | 18.17         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 8        | 18.17         |
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 13       | 18.17         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 13       | 18.17         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 13       | 18.17         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 9        | 18.17         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 18       | 18.17         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 19       | 18.17         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 4        | 18.16         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 6        | 18.16         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 7        | 18.16         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 11       | 18.16         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 11       | 18.16         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 15       | 18.16         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 15       | 18.16         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 2        | 18.16         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 15       | 18.16         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 15       | 18.16         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 12       | 18.16         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 12       | 18.16         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 17       | 18.16         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 17       | 18.16         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 11       | 18.16         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 11       | 18.16         |
| (1,2233) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HG3 | 14       | 18.16         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 15       | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 4        | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 4        | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 9        | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 9        | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 13       | 18.16         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 13       | 18.16         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 1        | 18.16         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 20       | 18.16         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 13       | 18.16         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 16       | 18.16         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 16       | 18.16         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 16       | 18.16         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 16       | 18.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 8        | 18.16         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 11       | 18.16         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3  | 11       | 18.15         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 14       | 18.15         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 11       | 18.15         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1  | 8        | 18.15         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 5        | 18.15         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 17       | 18.15         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 11       | 18.15         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H    | 15       | 18.15         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 2        | 18.15         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 2        | 18.15         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 4        | 18.15         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 4        | 18.15         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 12       | 18.15         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2  | 1        | 18.15         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3  | 1        | 18.15         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H    | 3        | 18.15         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H    | 4        | 18.15         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H    | 5        | 18.15         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 19       | 18.15         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3  | 20       | 18.15         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 14       | 18.15         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 3        | 18.15         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 3        | 18.15         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 8        | 18.15         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H    | 7        | 18.15         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2  | 15       | 18.15         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3  | 15       | 18.15         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 18       | 18.15         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 14       | 18.15         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3  | 16       | 18.15         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2  | 9        | 18.15         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3  | 9        | 18.15         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2  | 15       | 18.15         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3  | 15       | 18.15         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2  | 4        | 18.15         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3  | 4        | 18.15         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 17       | 18.14         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 17       | 18.14         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 14       | 18.14         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 7        | 18.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 5        | 18.14         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 1        | 18.14         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 1        | 18.14         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 19       | 18.14         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 19       | 18.14         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 19       | 18.14         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 7        | 18.14         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 1        | 18.14         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 1        | 18.14         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 14       | 18.14         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 14       | 18.14         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 13       | 18.14         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 13       | 18.14         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 7        | 18.14         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 17       | 18.14         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 6        | 18.14         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 6        | 18.14         |
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 15       | 18.14         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 4        | 18.14         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 20       | 18.14         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 15       | 18.13         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1 | 15       | 18.13         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1 | 10       | 18.13         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2 | 16       | 18.13         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 16       | 18.13         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 9        | 18.13         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 13       | 18.13         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 10       | 18.13         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 10       | 18.13         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 20       | 18.13         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 19       | 18.13         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 11       | 18.13         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 13       | 18.13         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 11       | 18.13         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 11       | 18.13         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 18       | 18.13         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 19       | 18.13         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 3        | 18.13         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 3        | 18.13         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 12       | 18.13         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 13       | 18.13         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 14       | 18.13         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1731) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HD3 | 11       | 18.13         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 16       | 18.13         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 9        | 18.12         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 9        | 18.12         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 9        | 18.12         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 20       | 18.12         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 13       | 18.12         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 13       | 18.12         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 16       | 18.12         |
| (1,2967) | 1:A:11:TRP:HH2 | 1:A:17:GLY:HA3 | 17       | 18.12         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 13       | 18.12         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 18       | 18.12         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 19       | 18.12         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 20       | 18.12         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 18       | 18.12         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 19       | 18.12         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 3        | 18.12         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 8        | 18.12         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 8        | 18.12         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 6        | 18.12         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 6        | 18.12         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 7        | 18.12         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 9        | 18.12         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 11       | 18.12         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 11       | 18.12         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 1        | 18.12         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 1        | 18.12         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 16       | 18.12         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 12       | 18.12         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 1        | 18.12         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 1        | 18.12         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 18       | 18.12         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 18       | 18.12         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 18       | 18.12         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 18       | 18.12         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 1        | 18.11         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 17       | 18.11         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 3        | 18.11         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 4        | 18.11         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 1        | 18.11         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 11       | 18.11         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 16       | 18.11         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 9        | 18.11         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 12       | 18.11         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 12       | 18.11         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 12       | 18.11         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 17       | 18.11         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 17       | 18.11         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 8        | 18.11         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 8        | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 3        | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 3        | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 7        | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 7        | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 10       | 18.11         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 10       | 18.11         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 9        | 18.11         |
| (1,2232) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HA  | 17       | 18.11         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 11       | 18.11         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 7        | 18.11         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 7        | 18.11         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 11       | 18.11         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 11       | 18.11         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 2        | 18.11         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 3        | 18.11         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 3        | 18.11         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 3        | 18.11         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 15       | 18.1          |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 7        | 18.1          |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1 | 14       | 18.1          |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 5        | 18.1          |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 8        | 18.1          |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 4        | 18.1          |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 4        | 18.1          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 12       | 18.1          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 12       | 18.1          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 14       | 18.1          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 14       | 18.1          |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 6        | 18.1          |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 6        | 18.1          |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 12       | 18.1          |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 14       | 18.1          |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 15       | 18.1          |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 2        | 18.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2312) | 1:A:9:PRO:HG2  | 1:A:17:GLY:HA2 | 12       | 18.1          |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 17       | 18.1          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 8        | 18.1          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 8        | 18.1          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 10       | 18.1          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 10       | 18.1          |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 12       | 18.1          |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 7        | 18.1          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 19       | 18.1          |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 19       | 18.1          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 15       | 18.1          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 15       | 18.1          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 19       | 18.1          |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 19       | 18.1          |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 16       | 18.1          |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 3        | 18.09         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 8        | 18.09         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 9        | 18.09         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 9        | 18.09         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 5        | 18.09         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 6        | 18.09         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 10       | 18.09         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 7        | 18.09         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 20       | 18.09         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 7        | 18.09         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 7        | 18.09         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 9        | 18.09         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 9        | 18.09         |
| (1,2811) | 1:A:11:TRP:HE3 | 1:A:29:GLY:HA3 | 16       | 18.09         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 10       | 18.09         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 16       | 18.09         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 16       | 18.09         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 16       | 18.09         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 20       | 18.09         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 8        | 18.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 16       | 18.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 16       | 18.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 16       | 18.09         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 11       | 18.09         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 11       | 18.09         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 9        | 18.09         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 1        | 18.08         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 1        | 18.08         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 3        | 18.08         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 14       | 18.08         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 3        | 18.08         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 20       | 18.08         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 9        | 18.08         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 7        | 18.08         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 7        | 18.08         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 17       | 18.08         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 19       | 18.08         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 5        | 18.08         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 5        | 18.08         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 8        | 18.08         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 8        | 18.08         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 10       | 18.08         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 8        | 18.08         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 10       | 18.08         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 13       | 18.08         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 13       | 18.08         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 16       | 18.08         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 9        | 18.07         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 9        | 18.07         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 3        | 18.07         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 4        | 18.07         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 4        | 18.07         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1 | 8        | 18.07         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 8        | 18.07         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 20       | 18.07         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 16       | 18.07         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 2        | 18.07         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 6        | 18.07         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 13       | 18.07         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 17       | 18.07         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 1        | 18.07         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 1        | 18.07         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 6        | 18.06         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 3        | 18.06         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 3        | 18.06         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 17       | 18.06         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 17       | 18.06         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 10       | 18.06         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 9        | 18.06         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 7        | 18.06         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 7        | 18.06         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 12       | 18.06         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 12       | 18.06         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 9        | 18.06         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 9        | 18.06         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 5        | 18.06         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 17       | 18.06         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 17       | 18.06         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 3        | 18.06         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 13       | 18.06         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 18       | 18.06         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 4        | 18.06         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 10       | 18.06         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 15       | 18.06         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 8        | 18.06         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 18       | 18.06         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 6        | 18.06         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 7        | 18.06         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 13       | 18.05         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 17       | 18.05         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 17       | 18.05         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 13       | 18.05         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 3        | 18.05         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 11       | 18.05         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 5        | 18.05         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 5        | 18.05         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 19       | 18.05         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 19       | 18.05         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 1        | 18.05         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 6        | 18.05         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 7        | 18.05         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 11       | 18.05         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 19       | 18.05         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 20       | 18.05         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 20       | 18.05         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 4        | 18.05         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 10       | 18.05         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 5        | 18.05         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 5        | 18.05         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 16       | 18.05         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 14       | 18.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 3        | 18.04         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 6        | 18.04         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 4        | 18.04         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 8        | 18.04         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3 | 19       | 18.04         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 12       | 18.04         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 12       | 18.04         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 6        | 18.04         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 6        | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 4        | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 4        | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 10       | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 10       | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 14       | 18.04         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 14       | 18.04         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 3        | 18.04         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 3        | 18.04         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 10       | 18.04         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 10       | 18.04         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 10       | 18.04         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 16       | 18.04         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 5        | 18.04         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 5        | 18.04         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 5        | 18.04         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 11       | 18.04         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 9        | 18.04         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 12       | 18.04         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 11       | 18.04         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 3        | 18.04         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 6        | 18.04         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 6        | 18.04         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 6        | 18.04         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 14       | 18.03         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 8        | 18.03         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 2        | 18.03         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 2        | 18.03         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 13       | 18.03         |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 13       | 18.03         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 16       | 18.03         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 16       | 18.03         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 2        | 18.03         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 2        | 18.03         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 5        | 18.03         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 15       | 18.03         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 14       | 18.03         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 14       | 18.03         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 8        | 18.03         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 12       | 18.03         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 1        | 18.03         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 17       | 18.03         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 14       | 18.03         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG2 | 20       | 18.03         |
| (1,1295) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HG3 | 20       | 18.03         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 12       | 18.03         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 4        | 18.03         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 17       | 18.02         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 2        | 18.02         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 19       | 18.02         |
| (1,2955) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:H   | 17       | 18.02         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 9        | 18.02         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 9        | 18.02         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 3        | 18.02         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 4        | 18.02         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 9        | 18.02         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 9        | 18.02         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 16       | 18.02         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 20       | 18.02         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 16       | 18.02         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 13       | 18.02         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 13       | 18.02         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 13       | 18.02         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 1        | 18.02         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 1        | 18.02         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 20       | 18.02         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 12       | 18.02         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 18       | 18.02         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 2        | 18.02         |
| (1,1377) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HA  | 19       | 18.02         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 12       | 18.01         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 19       | 18.01         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 7        | 18.01         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 16       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 8        | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 8        | 18.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 18       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 18       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 19       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 19       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 20       | 18.01         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 20       | 18.01         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 18       | 18.01         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 18       | 18.01         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA   | 11       | 18.01         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 1        | 18.01         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H    | 15       | 18.01         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 7        | 18.01         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 7        | 18.01         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 7        | 18.01         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 18       | 18.01         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 19       | 18.01         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 18       | 18.01         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 9        | 18.01         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 9        | 18.01         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 2        | 18.01         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 1        | 18.01         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 1        | 18.01         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 1        | 18.01         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 11       | 18.0          |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 11       | 18.0          |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 4        | 18.0          |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 4        | 18.0          |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 12       | 18.0          |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 7        | 18.0          |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 10       | 18.0          |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 4        | 18.0          |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 5        | 18.0          |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 14       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 2        | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 2        | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 11       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 11       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 15       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 15       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 18       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 18       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 19       | 18.0          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 19       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 20       | 18.0          |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 20       | 18.0          |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 16       | 18.0          |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 8        | 18.0          |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 7        | 18.0          |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 19       | 18.0          |
| (1,2179) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB2 | 17       | 18.0          |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 13       | 18.0          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 2        | 18.0          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 2        | 18.0          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 20       | 18.0          |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 20       | 18.0          |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 13       | 18.0          |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 6        | 18.0          |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 9        | 17.99         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 17       | 17.99         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 16       | 17.99         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 1        | 17.99         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 14       | 17.99         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 19       | 17.99         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 20       | 17.99         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 20       | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 1        | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 1        | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 4        | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 4        | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2 | 16       | 17.99         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3 | 16       | 17.99         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 14       | 17.99         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 7        | 17.99         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 18       | 17.99         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 19       | 17.99         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 15       | 17.99         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 8        | 17.99         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 3        | 17.99         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 16       | 17.99         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 16       | 17.99         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 10       | 17.99         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 19       | 17.99         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 6        | 17.99         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 11       | 17.99         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 11       | 17.99         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 11       | 17.99         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 4        | 17.98         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 5        | 17.98         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 5        | 17.98         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 16       | 17.98         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 16       | 17.98         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 16       | 17.98         |
| (1,2819) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HB3 | 18       | 17.98         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 18       | 17.98         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 18       | 17.98         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 19       | 17.98         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 19       | 17.98         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 2        | 17.98         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 2        | 17.98         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 13       | 17.98         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 4        | 17.98         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 20       | 17.98         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 18       | 17.98         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 18       | 17.98         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB2 | 19       | 17.98         |
| (1,1843) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HB3 | 19       | 17.98         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 11       | 17.98         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 6        | 17.98         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 12       | 17.98         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 19       | 17.98         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 19       | 17.98         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 3        | 17.97         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 3        | 17.97         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 17       | 17.97         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 17       | 17.97         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 5        | 17.97         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 3        | 17.97         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 3        | 17.97         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 2        | 17.97         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 5        | 17.97         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 5        | 17.97         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 13       | 17.97         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 15       | 17.97         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 15       | 17.97         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 9        | 17.97         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 2        | 17.97         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 2        | 17.97         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 16       | 17.97         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 4        | 17.97         |
| (1,2519) | 1:A:10:GLY:HA2 | 1:A:33:CYS:HB3 | 17       | 17.97         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 20       | 17.97         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 7        | 17.97         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 7        | 17.97         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 1        | 17.97         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 1        | 17.97         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 8        | 17.97         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 17       | 17.97         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 16       | 17.96         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 3        | 17.96         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 3        | 17.96         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 2        | 17.96         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 6        | 17.96         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 16       | 17.96         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 1        | 17.96         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 1        | 17.96         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 13       | 17.96         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 13       | 17.96         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 2        | 17.96         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 10       | 17.96         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 1        | 17.96         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 15       | 17.96         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 1        | 17.96         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 11       | 17.96         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 4        | 17.96         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 1        | 17.96         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 1        | 17.96         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 6        | 17.96         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 6        | 17.96         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 2        | 17.96         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 10       | 17.96         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 5        | 17.96         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 5        | 17.96         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 12       | 17.96         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 8        | 17.96         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 9        | 17.96         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3 | 4        | 17.96         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 8        | 17.96         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 15       | 17.96         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 12       | 17.96         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 11       | 17.96         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 9        | 17.96         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 5        | 17.96         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 5        | 17.96         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 5        | 17.96         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 17       | 17.96         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 8        | 17.95         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 9        | 17.95         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 14       | 17.95         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 14       | 17.95         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 11       | 17.95         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 11       | 17.95         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 9        | 17.95         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 9        | 17.95         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 14       | 17.95         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 2        | 17.95         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD2 | 16       | 17.95         |
| (1,2814) | 1:A:11:TRP:HE3 | 1:A:30:PRO:HD3 | 16       | 17.95         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG2 | 14       | 17.95         |
| (1,2513) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HG3 | 14       | 17.95         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 9        | 17.95         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 12       | 17.95         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 2        | 17.95         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 11       | 17.95         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 7        | 17.95         |
| (1,1857) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HA  | 16       | 17.95         |
| (1,1387) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HB2 | 7        | 17.95         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 10       | 17.95         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 20       | 17.94         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 16       | 17.94         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 16       | 17.94         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 12       | 17.94         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 12       | 17.94         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 5        | 17.94         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 18       | 17.94         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 10       | 17.94         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 10       | 17.94         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2 | 10       | 17.94         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 18       | 17.94         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 18       | 17.94         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 19       | 17.94         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 17       | 17.94         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2 | 11       | 17.94         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3 | 11       | 17.94         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 6        | 17.94         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 14       | 17.94         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 14       | 17.94         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 6        | 17.94         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 7        | 17.94         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 18       | 17.94         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 20       | 17.94         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 14       | 17.94         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 13       | 17.94         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 8        | 17.94         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 2        | 17.94         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 2        | 17.94         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 10       | 17.94         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 10       | 17.94         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 14       | 17.94         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 9        | 17.94         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 2        | 17.94         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 7        | 17.94         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 9        | 17.94         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 7        | 17.93         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 18       | 17.93         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 6        | 17.93         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 6        | 17.93         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 12       | 17.93         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 12       | 17.93         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 11       | 17.93         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 16       | 17.93         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H   | 19       | 17.93         |
| (1,2341) | 1:A:9:PRO:HG2  | 1:A:29:GLY:H   | 17       | 17.93         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 3        | 17.93         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 3        | 17.93         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 6        | 17.93         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 6        | 17.93         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 19       | 17.93         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 19       | 17.93         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 4        | 17.93         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 5        | 17.93         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 3        | 17.93         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 4        | 17.93         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 7        | 17.93         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 5        | 17.93         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 8        | 17.93         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 5        | 17.93         |
| (1,992)  | 1:A:3:PRO:HD2  | 1:A:33:CYS:HB3 | 19       | 17.92         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 7        | 17.92         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 7        | 17.92         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 10       | 17.92         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 12       | 17.92         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 12       | 17.92         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 14       | 17.92         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 9        | 17.92         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 10       | 17.92         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 7        | 17.92         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 4        | 17.92         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 4        | 17.92         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 13       | 17.92         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2 | 4        | 17.92         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3 | 4        | 17.92         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 15       | 17.92         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 10       | 17.92         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 10       | 17.92         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 10       | 17.92         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 10       | 17.92         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 5        | 17.92         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 5        | 17.92         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 3        | 17.92         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 1        | 17.92         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 15       | 17.92         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB2 | 20       | 17.92         |
| (1,1294) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HB3 | 20       | 17.92         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 10       | 17.92         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 11       | 17.92         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 12       | 17.92         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 13       | 17.92         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 9        | 17.91         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 9        | 17.91         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 17.91         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 6        | 17.91         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 15       | 17.91         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA  | 3        | 17.91         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 3        | 17.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 16       | 17.91         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 20       | 17.91         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 10       | 17.91         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 10       | 17.91         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 7        | 17.91         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 7        | 17.91         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 3        | 17.91         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 3        | 17.91         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 3        | 17.91         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 12       | 17.91         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 16       | 17.91         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 6        | 17.91         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 7        | 17.91         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 2        | 17.91         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 5        | 17.91         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 19       | 17.91         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 16       | 17.9          |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 16       | 17.9          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 11       | 17.9          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 11       | 17.9          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 14       | 17.9          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 14       | 17.9          |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 11       | 17.9          |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1 | 11       | 17.9          |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 3        | 17.9          |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 3        | 17.9          |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 14       | 17.9          |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 14       | 17.9          |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 11       | 17.9          |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 4        | 17.9          |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 7        | 17.9          |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 3        | 17.9          |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 9        | 17.9          |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 14       | 17.9          |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 11       | 17.9          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 9        | 17.9          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 9        | 17.9          |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 9        | 17.9          |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 7        | 17.89         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 7        | 17.89         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 3        | 17.89         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 3        | 17.89         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 3        | 17.89         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 11       | 17.89         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 18       | 17.89         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 16       | 17.89         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 16       | 17.89         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 9        | 17.89         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 20       | 17.89         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 3        | 17.89         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 19       | 17.89         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 17       | 17.89         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 9        | 17.89         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 13       | 17.89         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 2        | 17.88         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 13       | 17.88         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 1        | 17.88         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 13       | 17.88         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 4        | 17.88         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 5        | 17.88         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 5        | 17.88         |
| (1,701)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB2 | 10       | 17.88         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2 | 6        | 17.88         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3 | 6        | 17.88         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 7        | 17.88         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 7        | 17.88         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 13       | 17.88         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 8        | 17.88         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 15       | 17.88         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 15       | 17.88         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 15       | 17.88         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 15       | 17.88         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 11       | 17.88         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 11       | 17.88         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 16       | 17.88         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 13       | 17.88         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 5        | 17.88         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 1        | 17.88         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 9        | 17.88         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 9        | 17.88         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 9        | 17.88         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 12       | 17.87         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 19       | 17.87         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 19       | 17.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1 | 2        | 17.87         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2 | 13       | 17.87         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 17       | 17.87         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 10       | 17.87         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 5        | 17.87         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 19       | 17.87         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 6        | 17.87         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 6        | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 6        | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 6        | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 12       | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 12       | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 13       | 17.87         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 13       | 17.87         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 13       | 17.87         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 12       | 17.87         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 14       | 17.87         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 4        | 17.87         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 18       | 17.87         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 18       | 17.87         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 5        | 17.87         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 8        | 17.87         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 15       | 17.87         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 12       | 17.86         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 12       | 17.86         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 1        | 17.86         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 11       | 17.86         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 16       | 17.86         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 16       | 17.86         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2 | 19       | 17.86         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 5        | 17.86         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 5        | 17.86         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 16       | 17.86         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 1        | 17.86         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 2        | 17.86         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 3        | 17.86         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 1        | 17.86         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 18       | 17.86         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 14       | 17.86         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 10       | 17.86         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 8        | 17.85         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 15       | 17.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 15       | 17.85         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 15       | 17.85         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 8        | 17.85         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 3        | 17.85         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 8        | 17.85         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA   | 2        | 17.85         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 1        | 17.85         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 1        | 17.85         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 5        | 17.85         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 5        | 17.85         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2  | 16       | 17.85         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3  | 16       | 17.85         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 4        | 17.85         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 11       | 17.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 10       | 17.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 10       | 17.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 15       | 17.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 15       | 17.85         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 9        | 17.85         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 13       | 17.85         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2  | 6        | 17.84         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 10       | 17.84         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 15       | 17.84         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 5        | 17.84         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 5        | 17.84         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 20       | 17.84         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 13       | 17.84         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 13       | 17.84         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 19       | 17.84         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 12       | 17.84         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 12       | 17.84         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 8        | 17.84         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 8        | 17.84         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 5        | 17.84         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 6        | 17.84         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 11       | 17.84         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 12       | 17.84         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 12       | 17.84         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 4        | 17.84         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 11       | 17.84         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 15       | 17.84         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 7        | 17.84         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 20       | 17.84         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 20       | 17.84         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 20       | 17.84         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 3        | 17.83         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 3        | 17.83         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 10       | 17.83         |
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 9        | 17.83         |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 9        | 17.83         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3 | 17       | 17.83         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 1        | 17.83         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 4        | 17.83         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 15       | 17.83         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 15       | 17.83         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 1        | 17.83         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 3        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 1        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 1        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 2        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 2        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 4        | 17.83         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 4        | 17.83         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 10       | 17.83         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 1        | 17.83         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 13       | 17.83         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 7        | 17.83         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 16       | 17.83         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 18       | 17.83         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 19       | 17.83         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 20       | 17.83         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 1        | 17.83         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 13       | 17.83         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 6        | 17.83         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 6        | 17.83         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 10       | 17.83         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 18       | 17.83         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 18       | 17.83         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 18       | 17.83         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 17       | 17.82         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 17       | 17.82         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 7        | 17.82         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 7        | 17.82         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 17       | 17.82         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 14       | 17.82         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2  | 13       | 17.82         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3  | 13       | 17.82         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 11       | 17.82         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 11       | 17.82         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 11       | 17.82         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 11       | 17.82         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1  | 6        | 17.82         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2  | 6        | 17.82         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3  | 6        | 17.82         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2  | 13       | 17.82         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3  | 13       | 17.82         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 8        | 17.82         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 9        | 17.82         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 15       | 17.82         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 9        | 17.82         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 4        | 17.82         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 18       | 17.82         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA   | 8        | 17.82         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 12       | 17.82         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 14       | 17.82         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 12       | 17.82         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2  | 5        | 17.82         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3  | 5        | 17.82         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 3        | 17.82         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 8        | 17.82         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 13       | 17.81         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 13       | 17.81         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 12       | 17.81         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 2        | 17.81         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 16       | 17.81         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1  | 20       | 17.81         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2  | 20       | 17.81         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3  | 20       | 17.81         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 8        | 17.81         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 14       | 17.81         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 12       | 17.81         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 12       | 17.81         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 11       | 17.81         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 14       | 17.81         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 3        | 17.81         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 16       | 17.81         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 2        | 17.81         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 8        | 17.81         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 19       | 17.81         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 19       | 17.81         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 19       | 17.81         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 1        | 17.8          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 1        | 17.8          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 5        | 17.8          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 5        | 17.8          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 8        | 17.8          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 8        | 17.8          |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 9        | 17.8          |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 15       | 17.8          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 3        | 17.8          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 3        | 17.8          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 15       | 17.8          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 15       | 17.8          |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 9        | 17.8          |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 8        | 17.8          |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 8        | 17.8          |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 13       | 17.8          |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD2 | 17       | 17.8          |
| (1,2880) | 1:A:11:TRP:HE1 | 1:A:30:PRO:HD3 | 17       | 17.8          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 8        | 17.8          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 14       | 17.8          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 18       | 17.8          |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 13       | 17.8          |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 13       | 17.8          |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 20       | 17.8          |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 20       | 17.8          |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 9        | 17.8          |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 7        | 17.8          |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 7        | 17.8          |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 12       | 17.8          |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 1        | 17.8          |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 18       | 17.8          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 10       | 17.8          |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 11       | 17.8          |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 6        | 17.8          |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 20       | 17.8          |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 17       | 17.8          |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 7        | 17.8          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 17       | 17.8          |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 7        | 17.8          |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 18       | 17.8          |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 1        | 17.79         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 3        | 17.79         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 3        | 17.79         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 10       | 17.79         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 10       | 17.79         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 2        | 17.79         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 2        | 17.79         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 2        | 17.79         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 7        | 17.79         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2 | 2        | 17.79         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 7        | 17.79         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 18       | 17.79         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA  | 4        | 17.79         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 17       | 17.79         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 8        | 17.79         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 8        | 17.79         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 17       | 17.79         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 17       | 17.79         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2 | 15       | 17.79         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 5        | 17.79         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 5        | 17.79         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 9        | 17.79         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 14       | 17.79         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 7        | 17.79         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 13       | 17.79         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 19       | 17.79         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 20       | 17.79         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 1        | 17.79         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 6        | 17.79         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 2        | 17.79         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 7        | 17.79         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 6        | 17.78         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 6        | 17.78         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 15       | 17.78         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 15       | 17.78         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 20       | 17.78         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 18       | 17.78         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 3        | 17.78         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 3        | 17.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 1        | 17.78         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA2  | 17       | 17.78         |
| (1,2950) | 1:A:11:TRP:HZ2 | 1:A:29:GLY:HA3  | 17       | 17.78         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 11       | 17.78         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 8        | 17.78         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 12       | 17.78         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 15       | 17.78         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 15       | 17.78         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 15       | 17.78         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 9        | 17.78         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 6        | 17.78         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 6        | 17.78         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA   | 16       | 17.78         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 7        | 17.78         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 13       | 17.78         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA   | 13       | 17.77         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA   | 13       | 17.77         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 12       | 17.77         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 12       | 17.77         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 9        | 17.77         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 17       | 17.77         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 3        | 17.77         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 3        | 17.77         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 14       | 17.77         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 14       | 17.77         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H    | 20       | 17.77         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 2        | 17.77         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 10       | 17.77         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 12       | 17.77         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 20       | 17.77         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 5        | 17.77         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 12       | 17.77         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 17       | 17.77         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 8        | 17.77         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 4        | 17.77         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3  | 19       | 17.76         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 13       | 17.76         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 16       | 17.76         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 9        | 17.76         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 9        | 17.76         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 12       | 17.76         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 12       | 17.76         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 15       | 17.76         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 20       | 17.76         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 16       | 17.76         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 4        | 17.76         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1 | 7        | 17.76         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2 | 7        | 17.76         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 7        | 17.76         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 2        | 17.76         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 18       | 17.76         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 20       | 17.76         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 8        | 17.76         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 15       | 17.76         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 18       | 17.76         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3 | 17       | 17.76         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 6        | 17.76         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 18       | 17.76         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 4        | 17.76         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 14       | 17.75         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 1        | 17.75         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 1        | 17.75         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 6        | 17.75         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 18       | 17.75         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 19       | 17.75         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 20       | 17.75         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 19       | 17.75         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 19       | 17.75         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 14       | 17.75         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 18       | 17.75         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 7        | 17.75         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 7        | 17.75         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 7        | 17.75         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 7        | 17.75         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 9        | 17.75         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 9        | 17.75         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD2 | 8        | 17.75         |
| (1,2515) | 1:A:10:GLY:HA2 | 1:A:31:LYS:HD3 | 8        | 17.75         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 18       | 17.75         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 8        | 17.75         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 14       | 17.75         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 2        | 17.75         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 5        | 17.75         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 19       | 17.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 15       | 17.75         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 16       | 17.75         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 18       | 17.75         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 19       | 17.75         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 20       | 17.75         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 15       | 17.75         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 19       | 17.75         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 14       | 17.75         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 8        | 17.75         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 8        | 17.75         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 1        | 17.75         |
| (1,983)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB2 | 15       | 17.74         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 6        | 17.74         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 6        | 17.74         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3 | 18       | 17.74         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 17       | 17.74         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 11       | 17.74         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 10       | 17.74         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1 | 4        | 17.74         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 6        | 17.74         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 6        | 17.74         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 4        | 17.74         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 4        | 17.74         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H   | 11       | 17.74         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 13       | 17.74         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 13       | 17.74         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 7        | 17.74         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 16       | 17.74         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 12       | 17.74         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 7        | 17.74         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 15       | 17.74         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 16       | 17.74         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 19       | 17.74         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 4        | 17.74         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 16       | 17.74         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 18       | 17.74         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 15       | 17.74         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 12       | 17.74         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 3        | 17.74         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 6        | 17.74         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 17       | 17.74         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 6        | 17.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 9        | 17.73         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 8        | 17.73         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 20       | 17.73         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 14       | 17.73         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 14       | 17.73         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 7        | 17.73         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 14       | 17.73         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 10       | 17.73         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 10       | 17.73         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2  | 9        | 17.73         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3  | 9        | 17.73         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2  | 11       | 17.73         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3  | 11       | 17.73         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2  | 1        | 17.73         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 10       | 17.73         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 11       | 17.73         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 11       | 17.73         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 18       | 17.73         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 19       | 17.73         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 8        | 17.73         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 6        | 17.73         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 15       | 17.73         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 14       | 17.73         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA   | 19       | 17.73         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 8        | 17.73         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 8        | 17.73         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 8        | 17.73         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 19       | 17.73         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 19       | 17.72         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 17       | 17.72         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 17       | 17.72         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 10       | 17.72         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 15       | 17.72         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 15       | 17.72         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 9        | 17.72         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2  | 19       | 17.72         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3  | 19       | 17.72         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 7        | 17.72         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 7        | 17.72         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 1        | 17.72         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 14       | 17.72         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 3        | 17.72         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H   | 4        | 17.72         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 8        | 17.72         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 12       | 17.72         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 9        | 17.72         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 12       | 17.72         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 4        | 17.72         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 8        | 17.72         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 10       | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 2        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 2        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 4        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 4        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 5        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 5        | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 13       | 17.71         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 13       | 17.71         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 2        | 17.71         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 2        | 17.71         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 16       | 17.71         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 16       | 17.71         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 1        | 17.71         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 1        | 17.71         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 9        | 17.71         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 9        | 17.71         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H   | 16       | 17.71         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 2        | 17.71         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 12       | 17.71         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 11       | 17.71         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 17       | 17.71         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 5        | 17.71         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 13       | 17.71         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 6        | 17.71         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 20       | 17.71         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 8        | 17.71         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 2        | 17.71         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 18       | 17.71         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 1        | 17.7          |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 1        | 17.7          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 16       | 17.7          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 16       | 17.7          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 16       | 17.7          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 16       | 17.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 16       | 17.7          |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1  | 9        | 17.7          |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 16       | 17.7          |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 5        | 17.7          |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2  | 11       | 17.7          |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 9        | 17.7          |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 12       | 17.7          |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 15       | 17.7          |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 12       | 17.7          |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 10       | 17.7          |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 8        | 17.7          |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 11       | 17.7          |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 6        | 17.7          |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 19       | 17.7          |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 13       | 17.7          |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 17       | 17.69         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 17       | 17.69         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 15       | 17.69         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 15       | 17.69         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2  | 1        | 17.69         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2  | 1        | 17.69         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA   | 20       | 17.69         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA   | 20       | 17.69         |
| (1,873)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:HA3  | 16       | 17.69         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 20       | 17.69         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 12       | 17.69         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 12       | 17.69         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 2        | 17.69         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 1        | 17.69         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 1        | 17.69         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 9        | 17.69         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 7        | 17.69         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 11       | 17.69         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 11       | 17.69         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 13       | 17.69         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 2        | 17.69         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA   | 4        | 17.69         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 4        | 17.69         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 3        | 17.69         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 6        | 17.69         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 14       | 17.69         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 13       | 17.69         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 5        | 17.69         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 2        | 17.69         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 10       | 17.69         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 16       | 17.69         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 18       | 17.69         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 20       | 17.69         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 16       | 17.69         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 16       | 17.69         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 16       | 17.69         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 1        | 17.69         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 14       | 17.69         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 16       | 17.68         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 16       | 17.68         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2 | 6        | 17.68         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2 | 6        | 17.68         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 4        | 17.68         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 4        | 17.68         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA  | 18       | 17.68         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA  | 18       | 17.68         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 8        | 17.68         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 14       | 17.68         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 14       | 17.68         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 11       | 17.68         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 11       | 17.68         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 4        | 17.68         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 4        | 17.68         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 4        | 17.68         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 16       | 17.68         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 13       | 17.68         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 17       | 17.68         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 17       | 17.68         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 13       | 17.68         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 13       | 17.68         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2 | 12       | 17.68         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 10       | 17.68         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 3        | 17.68         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 3        | 17.68         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 3        | 17.68         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 14       | 17.68         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 15       | 17.68         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 10       | 17.68         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 16       | 17.68         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 2        | 17.68         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 6        | 17.68         |
| (1,1101) | 1:A:4:ASN:H    | 1:A:30:PRO:HD3 | 19       | 17.68         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 7        | 17.68         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 7        | 17.68         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 7        | 17.68         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 14       | 17.67         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 10       | 17.67         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 10       | 17.67         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 10       | 17.67         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 6        | 17.67         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 6        | 17.67         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 10       | 17.67         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 10       | 17.67         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 4        | 17.67         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 4        | 17.67         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 12       | 17.67         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 12       | 17.67         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 4        | 17.67         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 4        | 17.67         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 2        | 17.67         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 2        | 17.67         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 3        | 17.67         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 2        | 17.67         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 20       | 17.67         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 11       | 17.67         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 11       | 17.67         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 11       | 17.67         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 1        | 17.67         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 4        | 17.67         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 4        | 17.67         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 4        | 17.67         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 3        | 17.67         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 4        | 17.67         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H   | 16       | 17.67         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 5        | 17.67         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 7        | 17.67         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 11       | 17.67         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 15       | 17.67         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 4        | 17.67         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 2        | 17.67         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 5        | 17.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 5        | 17.66         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 11       | 17.66         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 11       | 17.66         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 7        | 17.66         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 12       | 17.66         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 12       | 17.66         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 12       | 17.66         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1  | 5        | 17.66         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1  | 19       | 17.66         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 5        | 17.66         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 5        | 17.66         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 14       | 17.66         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 13       | 17.66         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 14       | 17.66         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 14       | 17.66         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 14       | 17.66         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 16       | 17.66         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 18       | 17.66         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 20       | 17.66         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 11       | 17.66         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 17       | 17.66         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 12       | 17.66         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 14       | 17.66         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 10       | 17.66         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 2        | 17.66         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 10       | 17.66         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 12       | 17.66         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 11       | 17.66         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 10       | 17.66         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 10       | 17.66         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 10       | 17.66         |
| (1,994)  | 1:A:3:PRO:HD2  | 1:A:35:HIS:HD2  | 3        | 17.65         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 17       | 17.65         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 17       | 17.65         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 17       | 17.65         |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA   | 19       | 17.65         |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA   | 19       | 17.65         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 6        | 17.65         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 6        | 17.65         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 17       | 17.65         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 17       | 17.65         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 8        | 17.65         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2 | 8        | 17.65         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3 | 8        | 17.65         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1 | 16       | 17.65         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 15       | 17.65         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2 | 19       | 17.65         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 2        | 17.65         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 20       | 17.65         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 20       | 17.65         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 4        | 17.65         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 4        | 17.65         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 4        | 17.65         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 11       | 17.65         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 13       | 17.65         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 19       | 17.65         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 1        | 17.65         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 13       | 17.65         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 10       | 17.65         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 10       | 17.65         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 10       | 17.65         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 5        | 17.65         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 8        | 17.65         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 5        | 17.65         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 8        | 17.65         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 15       | 17.65         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 15       | 17.64         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 15       | 17.64         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 9        | 17.64         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 1        | 17.64         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 10       | 17.64         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 7        | 17.64         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 2        | 17.64         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 8        | 17.64         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 8        | 17.64         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 7        | 17.64         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 7        | 17.64         |
| (1,2875) | 1:A:11:TRP:HE1 | 1:A:29:GLY:H   | 17       | 17.64         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 6        | 17.64         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 3        | 17.64         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 19       | 17.64         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 19       | 17.64         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 5        | 17.64         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 20       | 17.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 1        | 17.64         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 10       | 17.64         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 17       | 17.64         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 17       | 17.64         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 20       | 17.64         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 5        | 17.64         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 16       | 17.64         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 4        | 17.64         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 11       | 17.64         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 16       | 17.63         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 16       | 17.63         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 18       | 17.63         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 18       | 17.63         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H    | 3        | 17.63         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 8        | 17.63         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 11       | 17.63         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 3        | 17.63         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 3        | 17.63         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 6        | 17.63         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 6        | 17.63         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 2        | 17.63         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 2        | 17.63         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 2        | 17.63         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 18       | 17.63         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 18       | 17.63         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2  | 19       | 17.63         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3  | 19       | 17.63         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 16       | 17.63         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 16       | 17.63         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2  | 20       | 17.63         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3  | 20       | 17.63         |
| (1,2571) | 1:A:10:GLY:HA3 | 1:A:33:CYS:H    | 17       | 17.63         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 15       | 17.63         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 15       | 17.63         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H    | 2        | 17.63         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 15       | 17.63         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 5        | 17.63         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 2        | 17.63         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 10       | 17.63         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 20       | 17.63         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 9        | 17.63         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 4        | 17.63         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 17       | 17.63         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 19       | 17.63         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 17       | 17.63         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 17       | 17.63         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 17       | 17.63         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 13       | 17.63         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 5        | 17.63         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 10       | 17.63         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 12       | 17.63         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 3        | 17.63         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 7        | 17.62         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 7        | 17.62         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 7        | 17.62         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 1        | 17.62         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 1        | 17.62         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 10       | 17.62         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 10       | 17.62         |
| (1,2882) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HA  | 17       | 17.62         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 14       | 17.62         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 8        | 17.62         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG2 | 16       | 17.62         |
| (1,2708) | 1:A:11:TRP:HB3 | 1:A:30:PRO:HG3 | 16       | 17.62         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 18       | 17.62         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 18       | 17.62         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 19       | 17.62         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 19       | 17.62         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 15       | 17.62         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 15       | 17.62         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 15       | 17.62         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 13       | 17.62         |
| (1,2343) | 1:A:9:PRO:HG2  | 1:A:31:LYS:H   | 17       | 17.62         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 2        | 17.62         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 19       | 17.62         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 12       | 17.62         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 17       | 17.62         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2 | 2        | 17.62         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3 | 2        | 17.62         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 17       | 17.62         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 18       | 17.61         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 3        | 17.61         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 13       | 17.61         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 4        | 17.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 4        | 17.61         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 4        | 17.61         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 8        | 17.61         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 8        | 17.61         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 16       | 17.61         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 16       | 17.61         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 14       | 17.61         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 14       | 17.61         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG2  | 17       | 17.61         |
| (1,2760) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HG3  | 17       | 17.61         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 7        | 17.61         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 7        | 17.61         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 1        | 17.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 12       | 17.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 12       | 17.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 12       | 17.61         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 6        | 17.61         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H    | 16       | 17.61         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 13       | 17.61         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 18       | 17.61         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1  | 9        | 17.61         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 1        | 17.61         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA   | 15       | 17.61         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 20       | 17.6          |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 20       | 17.6          |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 11       | 17.6          |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 9        | 17.6          |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 9        | 17.6          |
| (1,936)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HA   | 2        | 17.6          |
| (1,936)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HA   | 2        | 17.6          |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 19       | 17.6          |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H    | 20       | 17.6          |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 20       | 17.6          |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 20       | 17.6          |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 6        | 17.6          |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 8        | 17.6          |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 9        | 17.6          |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 11       | 17.6          |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 20       | 17.6          |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 9        | 17.6          |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 9        | 17.6          |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 8        | 17.6          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 13       | 17.6          |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 13       | 17.6          |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 1        | 17.6          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 4        | 17.6          |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 5        | 17.6          |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 9        | 17.6          |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 6        | 17.6          |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 7        | 17.6          |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 4        | 17.6          |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 3        | 17.6          |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 4        | 17.6          |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 11       | 17.6          |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 10       | 17.6          |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 18       | 17.6          |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 14       | 17.6          |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 18       | 17.6          |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 2        | 17.6          |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 10       | 17.6          |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 11       | 17.6          |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 13       | 17.6          |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 2        | 17.6          |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 17       | 17.6          |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 17       | 17.6          |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 2        | 17.6          |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 5        | 17.59         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 5        | 17.59         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 10       | 17.59         |
| (1,877)  | 1:A:3:PRO:HB3  | 1:A:33:CYS:H   | 16       | 17.59         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 1        | 17.59         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 14       | 17.59         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 15       | 17.59         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 6        | 17.59         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 11       | 17.59         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 11       | 17.59         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 5        | 17.59         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 8        | 17.59         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 9        | 17.59         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 9        | 17.59         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 4        | 17.59         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 4        | 17.59         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 4        | 17.59         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1 | 7        | 17.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H   | 3        | 17.59         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 19       | 17.59         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 5        | 17.59         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 18       | 17.59         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 3        | 17.59         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 3        | 17.59         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 3        | 17.59         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 2        | 17.59         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 2        | 17.59         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 2        | 17.59         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 14       | 17.59         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 12       | 17.58         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 13       | 17.58         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 13       | 17.58         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 19       | 17.58         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 19       | 17.58         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 14       | 17.58         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 3        | 17.58         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 7        | 17.58         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 14       | 17.58         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 1        | 17.58         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 2        | 17.58         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 19       | 17.58         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 16       | 17.58         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 1        | 17.58         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 9        | 17.58         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 1        | 17.57         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 1        | 17.57         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 14       | 17.57         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 14       | 17.57         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 1        | 17.57         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 1        | 17.57         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 4        | 17.57         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 4        | 17.57         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 16       | 17.57         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2 | 1        | 17.57         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3 | 1        | 17.57         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 7        | 17.57         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 7        | 17.57         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 9        | 17.57         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 9        | 17.57         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 18       | 17.57         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 10       | 17.57         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 16       | 17.57         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 18       | 17.57         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 19       | 17.57         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 13       | 17.57         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 14       | 17.57         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 14       | 17.57         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 14       | 17.57         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 12       | 17.57         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 12       | 17.57         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 7        | 17.57         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 5        | 17.57         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 18       | 17.57         |
| (1,1376) | 1:A:4:ASN:HD22 | 1:A:31:LYS:H    | 19       | 17.57         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 5        | 17.57         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 9        | 17.57         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 3        | 17.56         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 3        | 17.56         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 4        | 17.56         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 4        | 17.56         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 7        | 17.56         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 10       | 17.56         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 10       | 17.56         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 20       | 17.56         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 11       | 17.56         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 5        | 17.56         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 5        | 17.56         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 3        | 17.56         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 3        | 17.56         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 15       | 17.56         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 15       | 17.56         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 15       | 17.56         |
| (1,2605) | 1:A:11:TRP:H   | 1:A:31:LYS:HB2  | 17       | 17.56         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2  | 2        | 17.56         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3  | 2        | 17.56         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 20       | 17.56         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 13       | 17.56         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 12       | 17.56         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 15       | 17.56         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 9        | 17.56         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 9        | 17.56         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 9        | 17.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2  | 19       | 17.56         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 13       | 17.56         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 9        | 17.56         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 5        | 17.56         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 5        | 17.56         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 5        | 17.56         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H    | 6        | 17.56         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 17       | 17.56         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 11       | 17.55         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 13       | 17.55         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 5        | 17.55         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 14       | 17.55         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 14       | 17.55         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 2        | 17.55         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 1        | 17.55         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 1        | 17.55         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 8        | 17.55         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 16       | 17.55         |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H    | 8        | 17.55         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 18       | 17.55         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 1        | 17.55         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 15       | 17.55         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 18       | 17.55         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 8        | 17.55         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 6        | 17.54         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 6        | 17.54         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 14       | 17.54         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 14       | 17.54         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 6        | 17.54         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 15       | 17.54         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 4        | 17.54         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 4        | 17.54         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 19       | 17.54         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 8        | 17.54         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 13       | 17.54         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 13       | 17.54         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 15       | 17.54         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 15       | 17.54         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 19       | 17.54         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 13       | 17.54         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 11       | 17.54         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 19       | 17.54         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 6        | 17.54         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 6        | 17.54         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 10       | 17.54         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 10       | 17.54         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H   | 11       | 17.54         |
| (1,2178) | 1:A:9:PRO:HA   | 1:A:29:GLY:H   | 17       | 17.54         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 17       | 17.54         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 10       | 17.54         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 15       | 17.54         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 17       | 17.54         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 10       | 17.54         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 16       | 17.54         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 20       | 17.54         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 3        | 17.54         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 14       | 17.54         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 13       | 17.53         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 13       | 17.53         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 18       | 17.53         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 11       | 17.53         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 11       | 17.53         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 10       | 17.53         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 10       | 17.53         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 15       | 17.53         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 20       | 17.53         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 7        | 17.53         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 7        | 17.53         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 7        | 17.53         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 7        | 17.53         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 3        | 17.53         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 11       | 17.53         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 4        | 17.53         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 17       | 17.53         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 17       | 17.53         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 17       | 17.53         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 20       | 17.53         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 13       | 17.53         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 6        | 17.52         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 6        | 17.52         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 8        | 17.52         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 17       | 17.52         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 17       | 17.52         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 2        | 17.52         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 14       | 17.52         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 3        | 17.52         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 3        | 17.52         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 4        | 17.52         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 4        | 17.52         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 9        | 17.52         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 9        | 17.52         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 13       | 17.52         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 5        | 17.52         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 2        | 17.52         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 2        | 17.52         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 6        | 17.52         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 13       | 17.52         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 13       | 17.52         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 2        | 17.52         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 8        | 17.52         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2 | 17       | 17.52         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3 | 17       | 17.52         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 19       | 17.52         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 10       | 17.52         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 20       | 17.51         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 13       | 17.51         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 17       | 17.51         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 11       | 17.51         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 11       | 17.51         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 12       | 17.51         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 12       | 17.51         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB2 | 17       | 17.51         |
| (1,2603) | 1:A:11:TRP:H   | 1:A:30:PRO:HB3 | 17       | 17.51         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1 | 19       | 17.51         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 16       | 17.51         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 3        | 17.51         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 5        | 17.51         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 15       | 17.51         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 7        | 17.51         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 12       | 17.51         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 7        | 17.51         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 2        | 17.51         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 1        | 17.5          |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 1        | 17.5          |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 12       | 17.5          |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 12       | 17.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 3        | 17.5          |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 3        | 17.5          |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 6        | 17.5          |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 6        | 17.5          |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 1        | 17.5          |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 1        | 17.5          |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3 | 7        | 17.5          |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 12       | 17.5          |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2 | 17       | 17.5          |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3 | 17       | 17.5          |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 9        | 17.5          |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 19       | 17.5          |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 10       | 17.5          |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 3        | 17.5          |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 2        | 17.5          |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 2        | 17.5          |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 3        | 17.5          |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 15       | 17.5          |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 10       | 17.5          |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 6        | 17.5          |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 10       | 17.5          |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 15       | 17.5          |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 4        | 17.5          |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 9        | 17.5          |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 3        | 17.5          |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 13       | 17.5          |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 2        | 17.5          |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 3        | 17.5          |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 7        | 17.5          |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 3        | 17.49         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 3        | 17.49         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 10       | 17.49         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 10       | 17.49         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 3        | 17.49         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1 | 19       | 17.49         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 18       | 17.49         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 4        | 17.49         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 16       | 17.49         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 12       | 17.49         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 12       | 17.49         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 18       | 17.49         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 8        | 17.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 16       | 17.49         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1  | 17       | 17.49         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 6        | 17.49         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 10       | 17.49         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 3        | 17.49         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 8        | 17.49         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 10       | 17.49         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 10       | 17.49         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 15       | 17.49         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA2  | 17       | 17.49         |
| (1,2278) | 1:A:9:PRO:HB3  | 1:A:29:GLY:HA3  | 17       | 17.49         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 3        | 17.49         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 5        | 17.49         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H    | 6        | 17.49         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 8        | 17.49         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 8        | 17.49         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 14       | 17.49         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 12       | 17.48         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 12       | 17.48         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 15       | 17.48         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 15       | 17.48         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 8        | 17.48         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 8        | 17.48         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 6        | 17.48         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 6        | 17.48         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 8        | 17.48         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 8        | 17.48         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 5        | 17.48         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 5        | 17.48         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 5        | 17.48         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 3        | 17.48         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 6        | 17.48         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 6        | 17.48         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 9        | 17.48         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 6        | 17.48         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 6        | 17.48         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 10       | 17.48         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 10       | 17.48         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 3        | 17.48         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 3        | 17.48         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 1        | 17.48         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 14       | 17.48         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 2        | 17.48         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 7        | 17.48         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 4        | 17.48         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 10       | 17.47         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 10       | 17.47         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 6        | 17.47         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3 | 9        | 17.47         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 19       | 17.47         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 8        | 17.47         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 17       | 17.47         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 15       | 17.47         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 13       | 17.47         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 5        | 17.47         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 5        | 17.47         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 10       | 17.47         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 10       | 17.47         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 5        | 17.47         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 6        | 17.47         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2 | 20       | 17.47         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3 | 20       | 17.47         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H   | 15       | 17.47         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 16       | 17.47         |
| (1,1908) | 1:A:6:GLN:HE22 | 1:A:31:LYS:H   | 2        | 17.47         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 12       | 17.47         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 8        | 17.47         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 13       | 17.47         |
| (1,1298) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HA  | 4        | 17.47         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 5        | 17.47         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 20       | 17.47         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 2        | 17.46         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 2        | 17.46         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 17       | 17.46         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3 | 18       | 17.46         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 19       | 17.46         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 11       | 17.46         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 5        | 17.46         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 5        | 17.46         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 20       | 17.46         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 20       | 17.46         |
| (1,2883) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HB2 | 17       | 17.46         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 12       | 17.46         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 13       | 17.46         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 2        | 17.46         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 3        | 17.46         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 7        | 17.46         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 18       | 17.46         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 19       | 17.46         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 11       | 17.46         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 10       | 17.46         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 10       | 17.46         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 14       | 17.46         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 14       | 17.46         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H    | 8        | 17.46         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3  | 9        | 17.46         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2  | 7        | 17.46         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 12       | 17.46         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 17       | 17.46         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 18       | 17.45         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 18       | 17.45         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 20       | 17.45         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 20       | 17.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 5        | 17.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 5        | 17.45         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 5        | 17.45         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 13       | 17.45         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 13       | 17.45         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 6        | 17.45         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 16       | 17.45         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 16       | 17.45         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2  | 18       | 17.45         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3  | 18       | 17.45         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 16       | 17.45         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 16       | 17.45         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 3        | 17.45         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 20       | 17.45         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 6        | 17.45         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 12       | 17.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 1        | 17.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 1        | 17.45         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 4        | 17.45         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 6        | 17.45         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 13       | 17.45         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 20       | 17.45         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H    | 14       | 17.45         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 11       | 17.45         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 11       | 17.45         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 11       | 17.45         |
| (1,1909) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HA  | 2        | 17.45         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 2        | 17.45         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2 | 17       | 17.45         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3 | 17       | 17.45         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 13       | 17.45         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 17       | 17.44         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 17       | 17.44         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 18       | 17.44         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 18       | 17.44         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 4        | 17.44         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 5        | 17.44         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 14       | 17.44         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 14       | 17.44         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 4        | 17.44         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 7        | 17.44         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 7        | 17.44         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 4        | 17.44         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 16       | 17.44         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 3        | 17.44         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 3        | 17.44         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 12       | 17.44         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 12       | 17.44         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 19       | 17.44         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 19       | 17.44         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 18       | 17.44         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 19       | 17.44         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 5        | 17.44         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 5        | 17.44         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 7        | 17.44         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 16       | 17.44         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 5        | 17.44         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 5        | 17.44         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 20       | 17.44         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 15       | 17.44         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 2        | 17.44         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 10       | 17.44         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 18       | 17.44         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 17       | 17.44         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 13       | 17.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 13       | 17.44         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 13       | 17.44         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 14       | 17.44         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 3        | 17.43         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 3        | 17.43         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 3        | 17.43         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 13       | 17.43         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H    | 19       | 17.43         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H    | 19       | 17.43         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 1        | 17.43         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 1        | 17.43         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 14       | 17.43         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 9        | 17.43         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 16       | 17.43         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 16       | 17.43         |
| (1,2966) | 1:A:11:TRP:HH2 | 1:A:17:GLY:H    | 14       | 17.43         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 10       | 17.43         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 10       | 17.43         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 16       | 17.43         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 18       | 17.43         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 10       | 17.43         |
| (1,2510) | 1:A:10:GLY:HA2 | 1:A:28:SER:H    | 17       | 17.43         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 17       | 17.43         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 16       | 17.43         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 16       | 17.43         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 16       | 17.43         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 8        | 17.43         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 9        | 17.43         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 17       | 17.43         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 17       | 17.43         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 12       | 17.43         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 14       | 17.43         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 6        | 17.43         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 6        | 17.43         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 6        | 17.43         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H    | 20       | 17.43         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 5        | 17.42         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 5        | 17.42         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 5        | 17.42         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 9        | 17.42         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 9        | 17.42         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 1        | 17.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 13       | 17.42         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1 | 10       | 17.42         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 14       | 17.42         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 14       | 17.42         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG2 | 20       | 17.42         |
| (1,2981) | 1:A:11:TRP:HH2 | 1:A:31:LYS:HG3 | 20       | 17.42         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 16       | 17.42         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 16       | 17.42         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 6        | 17.42         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 14       | 17.42         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 6        | 17.42         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 1        | 17.42         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 14       | 17.42         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 14       | 17.42         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 1        | 17.42         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 18       | 17.42         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 1        | 17.41         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 1        | 17.41         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 14       | 17.41         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 4        | 17.41         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 4        | 17.41         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3 | 3        | 17.41         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 11       | 17.41         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 8        | 17.41         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 8        | 17.41         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 11       | 17.41         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 12       | 17.41         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 13       | 17.41         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 15       | 17.41         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 20       | 17.41         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 6        | 17.41         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 1        | 17.41         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 11       | 17.41         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 5        | 17.41         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 18       | 17.41         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 17       | 17.41         |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 19       | 17.41         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 3        | 17.41         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 1        | 17.41         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 1        | 17.41         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 1        | 17.41         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 9        | 17.41         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 9        | 17.41         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 17       | 17.41         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 2        | 17.41         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 16       | 17.41         |
| (1,1046) | 1:A:3:PRO:HD3  | 1:A:33:CYS:H   | 19       | 17.41         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 1        | 17.41         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 8        | 17.4          |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 8        | 17.4          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1 | 17       | 17.4          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 17       | 17.4          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 17       | 17.4          |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 13       | 17.4          |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3 | 2        | 17.4          |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 15       | 17.4          |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 15       | 17.4          |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H   | 9        | 17.4          |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 18       | 17.4          |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 10       | 17.4          |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 1        | 17.4          |
| (1,1917) | 1:A:6:GLN:HE22 | 1:A:34:ALA:H   | 16       | 17.4          |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 2        | 17.4          |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 2        | 17.4          |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 9        | 17.4          |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 16       | 17.4          |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 19       | 17.4          |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 17       | 17.4          |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 18       | 17.4          |
| (1,1673) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HD3 | 20       | 17.4          |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 17       | 17.39         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 4        | 17.39         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 10       | 17.39         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 18       | 17.39         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 20       | 17.39         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 6        | 17.39         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 4        | 17.39         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2 | 5        | 17.39         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 7        | 17.39         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2 | 20       | 17.39         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3 | 20       | 17.39         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 10       | 17.39         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 5        | 17.39         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 12       | 17.39         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2608) | 1:A:11:TRP:H    | 1:A:31:LYS:HD3  | 12       | 17.39         |
| (1,2606) | 1:A:11:TRP:H    | 1:A:31:LYS:HG2  | 15       | 17.39         |
| (1,2606) | 1:A:11:TRP:H    | 1:A:31:LYS:HG3  | 15       | 17.39         |
| (1,2557) | 1:A:10:GLY:HA3  | 1:A:28:SER:H    | 9        | 17.39         |
| (1,2287) | 1:A:9:PRO:HB3   | 1:A:34:ALA:H    | 19       | 17.39         |
| (1,2280) | 1:A:9:PRO:HB3   | 1:A:32:TYR:H    | 3        | 17.39         |
| (1,2280) | 1:A:9:PRO:HB3   | 1:A:32:TYR:H    | 5        | 17.39         |
| (1,2280) | 1:A:9:PRO:HB3   | 1:A:32:TYR:H    | 6        | 17.39         |
| (1,2241) | 1:A:9:PRO:HB2   | 1:A:34:ALA:H    | 3        | 17.39         |
| (1,1917) | 1:A:6:GLN:HE22  | 1:A:34:ALA:H    | 7        | 17.39         |
| (1,1501) | 1:A:5:GLY:HA3   | 1:A:35:HIS:HD2  | 10       | 17.39         |
| (1,1301) | 1:A:4:ASN:HD21  | 1:A:31:LYS:HB3  | 17       | 17.39         |
| (1,1178) | 1:A:4:ASN:HB2   | 1:A:35:HIS:HE1  | 5        | 17.39         |
| (1,1035) | 1:A:3:PRO:HD3   | 1:A:29:GLY:H    | 15       | 17.39         |
| (1,825)  | 1:A:3:PRO:HB2   | 1:A:33:CYS:H    | 5        | 17.38         |
| (1,737)  | 1:A:2:GLY:HA3   | 1:A:31:LYS:H    | 16       | 17.38         |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2  | 15       | 17.38         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 8        | 17.38         |
| (1,3283) | 1:A:15:ARG:HA   | 1:A:22:GLN:HE22 | 6        | 17.38         |
| (1,2810) | 1:A:11:TRP:HE3  | 1:A:29:GLY:H    | 17       | 17.38         |
| (1,2557) | 1:A:10:GLY:HA3  | 1:A:28:SER:H    | 8        | 17.38         |
| (1,2557) | 1:A:10:GLY:HA3  | 1:A:28:SER:H    | 12       | 17.38         |
| (1,2308) | 1:A:9:PRO:HG2   | 1:A:15:ARG:HE   | 5        | 17.38         |
| (1,2287) | 1:A:9:PRO:HB3   | 1:A:34:ALA:H    | 8        | 17.38         |
| (1,2287) | 1:A:9:PRO:HB3   | 1:A:34:ALA:H    | 12       | 17.38         |
| (1,2256) | 1:A:9:PRO:HB3   | 1:A:17:GLY:H    | 15       | 17.38         |
| (1,1847) | 1:A:6:GLN:HE21  | 1:A:31:LYS:HA   | 6        | 17.38         |
| (1,1846) | 1:A:6:GLN:HE21  | 1:A:31:LYS:H    | 10       | 17.38         |
| (1,1673) | 1:A:6:GLN:HB3   | 1:A:30:PRO:HD3  | 11       | 17.38         |
| (1,1673) | 1:A:6:GLN:HB3   | 1:A:30:PRO:HD3  | 16       | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB1  | 5        | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB2  | 5        | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB3  | 5        | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB1  | 11       | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB2  | 11       | 17.38         |
| (1,1390) | 1:A:4:ASN:HD22  | 1:A:34:ALA:HB3  | 11       | 17.38         |
| (1,1299) | 1:A:4:ASN:HD21  | 1:A:31:LYS:HB2  | 4        | 17.38         |
| (1,1297) | 1:A:4:ASN:HD21  | 1:A:31:LYS:H    | 16       | 17.38         |
| (1,1174) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HA   | 9        | 17.38         |
| (1,872)  | 1:A:3:PRO:HB3   | 1:A:29:GLY:H    | 17       | 17.37         |
| (1,767)  | 1:A:3:PRO:HA    | 1:A:31:LYS:HD2  | 11       | 17.37         |
| (1,767)  | 1:A:3:PRO:HA    | 1:A:31:LYS:HD3  | 11       | 17.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 20       | 17.37         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 20       | 17.37         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 8        | 17.37         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 8        | 17.37         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 3        | 17.37         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 8        | 17.37         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 8        | 17.37         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 11       | 17.37         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 1        | 17.37         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 1        | 17.37         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 20       | 17.37         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 20       | 17.37         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 1        | 17.37         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 1        | 17.37         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 7        | 17.37         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 4        | 17.37         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 7        | 17.37         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2  | 17       | 17.37         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 14       | 17.37         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 2        | 17.37         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 9        | 17.37         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 11       | 17.37         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 13       | 17.37         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 2        | 17.37         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 1        | 17.37         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 11       | 17.37         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 20       | 17.37         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 12       | 17.37         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 14       | 17.37         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 3        | 17.37         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 3        | 17.37         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 6        | 17.37         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H    | 12       | 17.37         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 1        | 17.37         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 1        | 17.37         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 17       | 17.37         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 17       | 17.37         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 19       | 17.36         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 6        | 17.36         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 6        | 17.36         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 2        | 17.36         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 2        | 17.36         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 7        | 17.36         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 7        | 17.36         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 15       | 17.36         |
| (1,703)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HB3  | 2        | 17.36         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 5        | 17.36         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 5        | 17.36         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 9        | 17.36         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 9        | 17.36         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 10       | 17.36         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 10       | 17.36         |
| (1,2983) | 1:A:11:TRP:HH2 | 1:A:35:HIS:HB3  | 1        | 17.36         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 3        | 17.36         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 6        | 17.36         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 17       | 17.36         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 17       | 17.36         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 17       | 17.36         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 20       | 17.36         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 2        | 17.36         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 12       | 17.36         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 7        | 17.36         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 18       | 17.36         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 19       | 17.36         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 5        | 17.36         |
| (1,2181) | 1:A:9:PRO:HA   | 1:A:31:LYS:HB3  | 17       | 17.36         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 15       | 17.36         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 6        | 17.36         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 16       | 17.36         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 16       | 17.36         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 16       | 17.36         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 4        | 17.36         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H    | 11       | 17.36         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 6        | 17.35         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 6        | 17.35         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 6        | 17.35         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2  | 19       | 17.35         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2  | 19       | 17.35         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 12       | 17.35         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 12       | 17.35         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 8        | 17.35         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 17       | 17.35         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 11       | 17.35         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 11       | 17.35         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1 | 3        | 17.35         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 3        | 17.35         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 3        | 17.35         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG2 | 17       | 17.35         |
| (1,3022) | 1:A:12:GLY:H   | 1:A:30:PRO:HG3 | 17       | 17.35         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 3        | 17.35         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 5        | 17.35         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 18       | 17.35         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 19       | 17.35         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 16       | 17.35         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 20       | 17.35         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 5        | 17.35         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 10       | 17.35         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 8        | 17.35         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 13       | 17.35         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 13       | 17.35         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 20       | 17.35         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 4        | 17.35         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 9        | 17.35         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1 | 11       | 17.34         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2 | 11       | 17.34         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3 | 11       | 17.34         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 16       | 17.34         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 11       | 17.34         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 11       | 17.34         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 19       | 17.34         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 5        | 17.34         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 2        | 17.34         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 1        | 17.34         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2 | 3        | 17.34         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3 | 3        | 17.34         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 4        | 17.34         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 4        | 17.34         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 15       | 17.34         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 8        | 17.34         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 11       | 17.34         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 8        | 17.34         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H   | 4        | 17.34         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 14       | 17.34         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 16       | 17.34         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 18       | 17.34         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 1        | 17.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 15       | 17.34         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H    | 18       | 17.34         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 18       | 17.34         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 18       | 17.34         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 20       | 17.34         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 20       | 17.34         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 17       | 17.33         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 17       | 17.33         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 11       | 17.33         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 11       | 17.33         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 18       | 17.33         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2  | 13       | 17.33         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H    | 10       | 17.33         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 19       | 17.33         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 19       | 17.33         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG2  | 14       | 17.33         |
| (1,2563) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HG3  | 14       | 17.33         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 16       | 17.33         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 11       | 17.33         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 11       | 17.33         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 11       | 17.33         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 15       | 17.33         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 15       | 17.33         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 16       | 17.33         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 18       | 17.33         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 9        | 17.33         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 9        | 17.33         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 15       | 17.33         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 1        | 17.32         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 1        | 17.32         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 1        | 17.32         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 2        | 17.32         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 2        | 17.32         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 5        | 17.32         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 16       | 17.32         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 1        | 17.32         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 1        | 17.32         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 1        | 17.32         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 9        | 17.32         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 9        | 17.32         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 16       | 17.32         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 19       | 17.32         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 19       | 17.32         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 14       | 17.32         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 7        | 17.32         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 7        | 17.32         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 6        | 17.32         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 13       | 17.32         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 13       | 17.32         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 10       | 17.32         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 10       | 17.32         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 1        | 17.32         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 1        | 17.32         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 1        | 17.32         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 1        | 17.32         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 11       | 17.32         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 1        | 17.32         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2 | 18       | 17.32         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3 | 18       | 17.32         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 17       | 17.32         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 17       | 17.32         |
| (1,1446) | 1:A:5:GLY:H    | 1:A:30:PRO:HB2 | 19       | 17.32         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 7        | 17.32         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 7        | 17.32         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 7        | 17.32         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 11       | 17.32         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 4        | 17.32         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 4        | 17.32         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 2        | 17.31         |
| (1,737)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:H   | 2        | 17.31         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 18       | 17.31         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 18       | 17.31         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 18       | 17.31         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 11       | 17.31         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 13       | 17.31         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 13       | 17.31         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 5        | 17.31         |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 7        | 17.31         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 5        | 17.31         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 5        | 17.31         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 14       | 17.31         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 5        | 17.31         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 3        | 17.31         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 3        | 17.31         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 3        | 17.31         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 9        | 17.31         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 9        | 17.31         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 9        | 17.31         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 15       | 17.31         |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 10       | 17.31         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 5        | 17.31         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 12       | 17.31         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 7        | 17.31         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 7        | 17.31         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 9        | 17.31         |
| (1,2206) | 1:A:9:PRO:HB2  | 1:A:17:GLY:H   | 14       | 17.31         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 6        | 17.31         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 14       | 17.31         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 19       | 17.31         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 20       | 17.31         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 20       | 17.31         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 20       | 17.31         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA  | 5        | 17.31         |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 19       | 17.31         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 8        | 17.31         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 4        | 17.3          |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 1        | 17.3          |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 1        | 17.3          |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 1        | 17.3          |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 10       | 17.3          |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 10       | 17.3          |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 18       | 17.3          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 17       | 17.3          |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 10       | 17.3          |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 3        | 17.3          |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2 | 14       | 17.3          |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3 | 14       | 17.3          |
| (1,2893) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HA  | 16       | 17.3          |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 20       | 17.3          |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 11       | 17.3          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 5        | 17.3          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 5        | 17.3          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 5        | 17.3          |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 15       | 17.3          |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 1        | 17.3          |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 2        | 17.3          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 14       | 17.3          |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 14       | 17.3          |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 3        | 17.3          |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 13       | 17.3          |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H   | 5        | 17.29         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H   | 5        | 17.29         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 11       | 17.29         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 13       | 17.29         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 7        | 17.29         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 7        | 17.29         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 7        | 17.29         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 13       | 17.29         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 13       | 17.29         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 9        | 17.29         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 9        | 17.29         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 5        | 17.29         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 19       | 17.29         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 19       | 17.29         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 1        | 17.29         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 1        | 17.29         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 9        | 17.29         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 19       | 17.29         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 19       | 17.29         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 6        | 17.29         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 6        | 17.29         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 6        | 17.29         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 12       | 17.29         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 12       | 17.29         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 12       | 17.29         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 13       | 17.29         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 5        | 17.29         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1 | 11       | 17.29         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 10       | 17.29         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 10       | 17.29         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 12       | 17.29         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 4        | 17.29         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 4        | 17.29         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3 | 18       | 17.28         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 16       | 17.28         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 16       | 17.28         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 10       | 17.28         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 10       | 17.28         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 7        | 17.28         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 7        | 17.28         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 15       | 17.28         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2 | 10       | 17.28         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3 | 10       | 17.28         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 4        | 17.28         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 13       | 17.28         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H   | 2        | 17.28         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 12       | 17.28         |
| (1,1846) | 1:A:6:GLN:HE21 | 1:A:31:LYS:H   | 2        | 17.28         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 4        | 17.28         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 3        | 17.28         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 15       | 17.28         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA  | 1        | 17.28         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1 | 5        | 17.27         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2 | 5        | 17.27         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3 | 5        | 17.27         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 12       | 17.27         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 12       | 17.27         |
| (1,943)  | 1:A:3:PRO:HG2  | 1:A:34:ALA:H   | 7        | 17.27         |
| (1,943)  | 1:A:3:PRO:HG3  | 1:A:34:ALA:H   | 7        | 17.27         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 1        | 17.27         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 1        | 17.27         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 2        | 17.27         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 2        | 17.27         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2 | 16       | 17.27         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3 | 16       | 17.27         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 6        | 17.27         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 10       | 17.27         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 12       | 17.27         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2 | 12       | 17.27         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3 | 12       | 17.27         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 2        | 17.27         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 14       | 17.27         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 10       | 17.27         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 10       | 17.27         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H   | 13       | 17.27         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 20       | 17.27         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 2        | 17.27         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 2        | 17.27         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 2        | 17.27         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 11       | 17.27         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 1        | 17.27         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 13       | 17.27         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 19       | 17.27         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 20       | 17.27         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 10       | 17.27         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 10       | 17.27         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 11       | 17.27         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 11       | 17.27         |
| (1,1313) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HE1  | 1        | 17.27         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 9        | 17.26         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 9        | 17.26         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 9        | 17.26         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 9        | 17.26         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 9        | 17.26         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 9        | 17.26         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 12       | 17.26         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H    | 19       | 17.26         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 6        | 17.26         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 6        | 17.26         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 3        | 17.26         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 3        | 17.26         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 17       | 17.26         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2  | 18       | 17.26         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3  | 18       | 17.26         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 19       | 17.26         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 6        | 17.26         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 17       | 17.26         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 4        | 17.26         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 12       | 17.26         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 4        | 17.26         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 18       | 17.26         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 5        | 17.26         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 1        | 17.26         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 1        | 17.26         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 1        | 17.26         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 1        | 17.25         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 8        | 17.25         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 8        | 17.25         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 9        | 17.25         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 3        | 17.25         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 3        | 17.25         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 3        | 17.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 6        | 17.25         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 6        | 17.25         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 12       | 17.25         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 12       | 17.25         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 1        | 17.25         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 13       | 17.25         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 8        | 17.25         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 14       | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 6        | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 6        | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 8        | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 8        | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 14       | 17.25         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 14       | 17.25         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 7        | 17.25         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 13       | 17.25         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 4        | 17.25         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 13       | 17.25         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 19       | 17.25         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 13       | 17.25         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 12       | 17.25         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 15       | 17.24         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 15       | 17.24         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 15       | 17.24         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 3        | 17.24         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 3        | 17.24         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 3        | 17.24         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 20       | 17.24         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 7        | 17.24         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 8        | 17.24         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 8        | 17.24         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 18       | 17.24         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 18       | 17.24         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 17       | 17.24         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 17       | 17.24         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 20       | 17.24         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 5        | 17.24         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 17       | 17.24         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 17       | 17.24         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 17       | 17.24         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 10       | 17.24         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 13       | 17.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 13       | 17.24         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 4        | 17.23         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 4        | 17.23         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 15       | 17.23         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 12       | 17.23         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 20       | 17.23         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 12       | 17.23         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 12       | 17.23         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 9        | 17.23         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 9        | 17.23         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 9        | 17.23         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 14       | 17.23         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 14       | 17.23         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 1        | 17.23         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 1        | 17.23         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 1        | 17.23         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 18       | 17.23         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 19       | 17.23         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 19       | 17.23         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 19       | 17.23         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 20       | 17.23         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 20       | 17.23         |
| (1,2275) | 1:A:9:PRO:HB3  | 1:A:28:SER:H    | 17       | 17.23         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 5        | 17.23         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 1        | 17.23         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 9        | 17.23         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 11       | 17.23         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 3        | 17.23         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 3        | 17.23         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H    | 7        | 17.23         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 14       | 17.23         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 14       | 17.23         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 12       | 17.22         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 3        | 17.22         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 3        | 17.22         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 11       | 17.22         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 18       | 17.22         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 19       | 17.22         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 17       | 17.22         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 17       | 17.22         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 18       | 17.22         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 18       | 17.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 18       | 17.22         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 20       | 17.22         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 20       | 17.22         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 20       | 17.22         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 17       | 17.22         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 17       | 17.22         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 17       | 17.22         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 9        | 17.22         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 9        | 17.22         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 16       | 17.22         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 16       | 17.22         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 15       | 17.22         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA   | 4        | 17.22         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 6        | 17.22         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 15       | 17.22         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 15       | 17.22         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 15       | 17.22         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 15       | 17.22         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 17       | 17.22         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 17       | 17.22         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 18       | 17.22         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 14       | 17.22         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 14       | 17.22         |
| (1,985)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HB3  | 2        | 17.21         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 19       | 17.21         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 19       | 17.21         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 19       | 17.21         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 15       | 17.21         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 7        | 17.21         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 7        | 17.21         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 4        | 17.21         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 4        | 17.21         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 3        | 17.21         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 12       | 17.21         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 15       | 17.21         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 15       | 17.21         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 10       | 17.21         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 5        | 17.21         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 5        | 17.21         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 7        | 17.21         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 7        | 17.21         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 19       | 17.21         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 19       | 17.21         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 19       | 17.21         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 10       | 17.21         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 8        | 17.21         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 20       | 17.21         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 16       | 17.21         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 8        | 17.21         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 14       | 17.21         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 10       | 17.21         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 4        | 17.2          |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H   | 20       | 17.2          |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 4        | 17.2          |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 5        | 17.2          |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 2        | 17.2          |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 4        | 17.2          |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 1        | 17.2          |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 16       | 17.2          |
| (1,2405) | 1:A:9:PRO:HG3  | 1:A:29:GLY:H   | 17       | 17.2          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 12       | 17.2          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 12       | 17.2          |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 2        | 17.2          |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H   | 7        | 17.2          |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H   | 8        | 17.2          |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 14       | 17.2          |
| (1,1297) | 1:A:4:ASN:HD21 | 1:A:31:LYS:H   | 20       | 17.2          |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 3        | 17.19         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 4        | 17.19         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 15       | 17.19         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 15       | 17.19         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2 | 16       | 17.19         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 13       | 17.19         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 2        | 17.19         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 7        | 17.19         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 3        | 17.19         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 11       | 17.19         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 18       | 17.19         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 17       | 17.19         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 17       | 17.19         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3 | 10       | 17.19         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 8        | 17.19         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 3        | 17.19         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 10       | 17.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 13       | 17.19         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 3        | 17.19         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 3        | 17.19         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 3        | 17.19         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 3        | 17.19         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 1        | 17.19         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 1        | 17.19         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 3        | 17.19         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 20       | 17.19         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 6        | 17.19         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 6        | 17.19         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 14       | 17.18         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 14       | 17.18         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 19       | 17.18         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 19       | 17.18         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 12       | 17.18         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 17       | 17.18         |
| (1,707)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:H    | 9        | 17.18         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 18       | 17.18         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 4        | 17.18         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 4        | 17.18         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 1        | 17.18         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 10       | 17.18         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 9        | 17.18         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 9        | 17.18         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 14       | 17.18         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 9        | 17.18         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 1        | 17.18         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 10       | 17.18         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 7        | 17.18         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 12       | 17.18         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 2        | 17.18         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 14       | 17.18         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 8        | 17.18         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 2        | 17.18         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 1        | 17.18         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 6        | 17.17         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 9        | 17.17         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 9        | 17.17         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 9        | 17.17         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 8        | 17.17         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 14       | 17.17         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA  | 15       | 17.17         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 20       | 17.17         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 20       | 17.17         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 11       | 17.17         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 14       | 17.17         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 4        | 17.17         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H   | 16       | 17.17         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 8        | 17.17         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2 | 15       | 17.17         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3 | 15       | 17.17         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 1        | 17.17         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 9        | 17.17         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 9        | 17.17         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 11       | 17.17         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 11       | 17.17         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 11       | 17.17         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 2        | 17.17         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 4        | 17.17         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 17       | 17.17         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2 | 7        | 17.17         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 4        | 17.17         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 4        | 17.17         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2 | 17       | 17.17         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 9        | 17.17         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 9        | 17.17         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1 | 20       | 17.16         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2 | 20       | 17.16         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3 | 20       | 17.16         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 4        | 17.16         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 4        | 17.16         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 3        | 17.16         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 3        | 17.16         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 13       | 17.16         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 13       | 17.16         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 13       | 17.16         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 13       | 17.16         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 13       | 17.16         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 20       | 17.16         |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1 | 14       | 17.16         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 11       | 17.16         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 11       | 17.16         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 17       | 17.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 17       | 17.16         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 10       | 17.16         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 10       | 17.16         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 10       | 17.16         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG2  | 20       | 17.16         |
| (1,2929) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HG3  | 20       | 17.16         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 15       | 17.16         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 15       | 17.16         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 15       | 17.16         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 15       | 17.16         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 4        | 17.16         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 4        | 17.16         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 10       | 17.16         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 14       | 17.16         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 2        | 17.16         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 10       | 17.16         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 10       | 17.16         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 16       | 17.16         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 14       | 17.16         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 7        | 17.16         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 9        | 17.16         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 14       | 17.16         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 6        | 17.16         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 12       | 17.16         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 18       | 17.15         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 18       | 17.15         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 18       | 17.15         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 7        | 17.15         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 7        | 17.15         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 14       | 17.15         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 10       | 17.15         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 8        | 17.15         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 5        | 17.15         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 5        | 17.15         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 3        | 17.15         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 3        | 17.15         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 3        | 17.15         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 7        | 17.15         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 7        | 17.15         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 19       | 17.15         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 7        | 17.15         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 7        | 17.15         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 16       | 17.15         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 16       | 17.15         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 18       | 17.15         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 18       | 17.15         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 10       | 17.15         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 2        | 17.15         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 2        | 17.15         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 11       | 17.15         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 11       | 17.15         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 14       | 17.15         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 4        | 17.15         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 11       | 17.15         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 20       | 17.15         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 14       | 17.15         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 14       | 17.15         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 18       | 17.15         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 8        | 17.15         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 9        | 17.15         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 10       | 17.15         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 15       | 17.15         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 15       | 17.15         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 10       | 17.15         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 12       | 17.15         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 12       | 17.15         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 15       | 17.14         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 15       | 17.14         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 3        | 17.14         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 12       | 17.14         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG2  | 17       | 17.14         |
| (1,656)  | 1:A:2:GLY:H    | 1:A:30:PRO:HG3  | 17       | 17.14         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 19       | 17.14         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 18       | 17.14         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2  | 19       | 17.14         |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3  | 19       | 17.14         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 15       | 17.14         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 2        | 17.14         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 4        | 17.14         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 4        | 17.14         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 1        | 17.14         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 2        | 17.14         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 11       | 17.14         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 1        | 17.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 1        | 17.14         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 1        | 17.14         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 13       | 17.14         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 13       | 17.14         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 13       | 17.14         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 9        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 1        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 1        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 1        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 9        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 9        | 17.14         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 9        | 17.14         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 4        | 17.14         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 5        | 17.14         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 1        | 17.14         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 1        | 17.14         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 4        | 17.14         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 4        | 17.14         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 19       | 17.13         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 19       | 17.13         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 19       | 17.13         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 18       | 17.13         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 18       | 17.13         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 6        | 17.13         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 3        | 17.13         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 5        | 17.13         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 10       | 17.13         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 13       | 17.13         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 18       | 17.13         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 13       | 17.13         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 4        | 17.13         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 1        | 17.13         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 1        | 17.13         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 11       | 17.13         |
| (1,2607) | 1:A:11:TRP:H   | 1:A:31:LYS:HB3  | 17       | 17.13         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 1        | 17.13         |
| (1,2205) | 1:A:9:PRO:HB2  | 1:A:16:GLY:HA3  | 3        | 17.13         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 4        | 17.13         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 12       | 17.13         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 12       | 17.13         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 12       | 17.13         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 4        | 17.13         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 18       | 17.13         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 18       | 17.13         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 18       | 17.13         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 11       | 17.13         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 11       | 17.13         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 8        | 17.13         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 8        | 17.13         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 16       | 17.12         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 16       | 17.12         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 7        | 17.12         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 7        | 17.12         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 20       | 17.12         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 20       | 17.12         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 6        | 17.12         |
| (1,2936) | 1:A:11:TRP:HZ3 | 1:A:35:HIS:HB3  | 1        | 17.12         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1  | 5        | 17.12         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 4        | 17.12         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 7        | 17.12         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 7        | 17.12         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 12       | 17.12         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 11       | 17.12         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 11       | 17.12         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2  | 11       | 17.12         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 3        | 17.12         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 3        | 17.12         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 3        | 17.12         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 12       | 17.12         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 12       | 17.12         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 4        | 17.12         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 13       | 17.12         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 12       | 17.12         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 4        | 17.12         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 15       | 17.12         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 20       | 17.12         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 15       | 17.12         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 15       | 17.12         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 15       | 17.12         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 10       | 17.11         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 10       | 17.11         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 16       | 17.11         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3  | 16       | 17.11         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2  | 19       | 17.11         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 19       | 17.11         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD2 | 20       | 17.11         |
| (1,817)  | 1:A:3:PRO:HB2  | 1:A:30:PRO:HD3 | 20       | 17.11         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 1        | 17.11         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 3        | 17.11         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 3        | 17.11         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 4        | 17.11         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 4        | 17.11         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 20       | 17.11         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 10       | 17.11         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 9        | 17.11         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 3        | 17.11         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 7        | 17.11         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 2        | 17.11         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 16       | 17.11         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 16       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 5        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 5        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 5        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 6        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 6        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 6        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 9        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 9        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 9        | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 18       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 18       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 18       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 20       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 20       | 17.11         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 20       | 17.11         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 16       | 17.11         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 16       | 17.11         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 16       | 17.11         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2 | 3        | 17.11         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H   | 3        | 17.11         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 14       | 17.11         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 12       | 17.11         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 10       | 17.11         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 4        | 17.11         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 11       | 17.11         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 11       | 17.11         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,949)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HE1 | 1        | 17.1          |
| (1,949)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HE1 | 1        | 17.1          |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 2        | 17.1          |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 12       | 17.1          |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 12       | 17.1          |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2 | 2        | 17.1          |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2 | 9        | 17.1          |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG2 | 17       | 17.1          |
| (1,3045) | 1:A:12:GLY:HA2 | 1:A:30:PRO:HG3 | 17       | 17.1          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1 | 7        | 17.1          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 7        | 17.1          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 7        | 17.1          |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 2        | 17.1          |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 4        | 17.1          |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 7        | 17.1          |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 15       | 17.1          |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 8        | 17.1          |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 19       | 17.1          |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 11       | 17.1          |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 19       | 17.1          |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 19       | 17.1          |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 19       | 17.1          |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 7        | 17.1          |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 7        | 17.1          |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 8        | 17.1          |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 12       | 17.1          |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 2        | 17.1          |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 2        | 17.1          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 19       | 17.1          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 19       | 17.1          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 19       | 17.1          |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 9        | 17.1          |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 20       | 17.1          |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 20       | 17.1          |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 11       | 17.1          |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 13       | 17.1          |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 13       | 17.1          |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 13       | 17.1          |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1 | 16       | 17.09         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2 | 16       | 17.09         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3 | 16       | 17.09         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 18       | 17.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA   | 18       | 17.09         |
| (1,945)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:H    | 20       | 17.09         |
| (1,945)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:H    | 20       | 17.09         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 6        | 17.09         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 6        | 17.09         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 10       | 17.09         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 7        | 17.09         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 7        | 17.09         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 10       | 17.09         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 10       | 17.09         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 3        | 17.09         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 13       | 17.09         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 3        | 17.09         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 3        | 17.09         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 16       | 17.09         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 16       | 17.09         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 20       | 17.09         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 20       | 17.09         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 9        | 17.09         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 17       | 17.09         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 4        | 17.09         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 8        | 17.09         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 8        | 17.09         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD2  | 8        | 17.09         |
| (1,2565) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HD3  | 8        | 17.09         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 9        | 17.09         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 5        | 17.09         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 16       | 17.09         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 18       | 17.09         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 20       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 11       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 11       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 11       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 14       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 14       | 17.09         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 14       | 17.09         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 12       | 17.09         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 9        | 17.09         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 9        | 17.09         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 5        | 17.09         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 5        | 17.09         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 13       | 17.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 13       | 17.09         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 7        | 17.08         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 7        | 17.08         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 7        | 17.08         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 5        | 17.08         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 12       | 17.08         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 14       | 17.08         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 8        | 17.08         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 8        | 17.08         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 14       | 17.08         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 3        | 17.08         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 12       | 17.08         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 6        | 17.08         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 6        | 17.08         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 18       | 17.08         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 18       | 17.08         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 19       | 17.08         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 19       | 17.08         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 6        | 17.08         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 20       | 17.08         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 3        | 17.08         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 3        | 17.08         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 3        | 17.08         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 12       | 17.08         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 3        | 17.08         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 13       | 17.08         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 13       | 17.08         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 13       | 17.08         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 16       | 17.08         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 18       | 17.08         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 19       | 17.08         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 13       | 17.08         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 13       | 17.08         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 5        | 17.08         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 2        | 17.08         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 10       | 17.08         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 16       | 17.08         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 19       | 17.08         |
| (1,2228) | 1:A:9:PRO:HB2  | 1:A:28:SER:H    | 17       | 17.08         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 4        | 17.08         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 16       | 17.08         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 1        | 17.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 1        | 17.08         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 4        | 17.07         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 7        | 17.07         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 20       | 17.07         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 20       | 17.07         |
| (1,2892) | 1:A:11:TRP:HE1 | 1:A:34:ALA:H    | 17       | 17.07         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 7        | 17.07         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 5        | 17.07         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 9        | 17.07         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 18       | 17.07         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 19       | 17.07         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 8        | 17.07         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 14       | 17.07         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 20       | 17.07         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 11       | 17.07         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 11       | 17.07         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 6        | 17.07         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 6        | 17.07         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 6        | 17.07         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 2        | 17.07         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 5        | 17.07         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 15       | 17.07         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 15       | 17.07         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 19       | 17.07         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 19       | 17.07         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 19       | 17.07         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 3        | 17.06         |
| (1,948)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HD2  | 3        | 17.06         |
| (1,948)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HD2  | 3        | 17.06         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 19       | 17.06         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 9        | 17.06         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 9        | 17.06         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 8        | 17.06         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 9        | 17.06         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 3        | 17.06         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 2        | 17.06         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 3        | 17.06         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 8        | 17.06         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 12       | 17.06         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 17       | 17.06         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 3        | 17.06         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 4        | 17.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 18       | 17.06         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 20       | 17.06         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 4        | 17.06         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 3        | 17.05         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 5        | 17.05         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 5        | 17.05         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 6        | 17.05         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 1        | 17.05         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 1        | 17.05         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 15       | 17.05         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 15       | 17.05         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 4        | 17.05         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 10       | 17.05         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 9        | 17.05         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 15       | 17.05         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 13       | 17.05         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 2        | 17.05         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 2        | 17.05         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 17       | 17.05         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 17       | 17.05         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 17       | 17.05         |
| (1,2377) | 1:A:9:PRO:HG3  | 1:A:17:GLY:HA2  | 12       | 17.05         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 6        | 17.05         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 18       | 17.05         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 20       | 17.05         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 11       | 17.05         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 13       | 17.05         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 5        | 17.05         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 15       | 17.05         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 9        | 17.05         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 9        | 17.05         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 18       | 17.05         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 14       | 17.05         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 14       | 17.05         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 3        | 17.05         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 3        | 17.05         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 11       | 17.05         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 11       | 17.05         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2  | 18       | 17.05         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3  | 18       | 17.05         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 2        | 17.04         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 13       | 17.04         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 13       | 17.04         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 7        | 17.04         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 9        | 17.04         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 9        | 17.04         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 6        | 17.04         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 6        | 17.04         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 12       | 17.04         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 12       | 17.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 3        | 17.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 3        | 17.04         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 4        | 17.04         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 20       | 17.04         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 6        | 17.04         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 14       | 17.04         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 14       | 17.04         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 9        | 17.04         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 19       | 17.04         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 13       | 17.04         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 1        | 17.04         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 1        | 17.04         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 3        | 17.04         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 6        | 17.04         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 20       | 17.04         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 20       | 17.04         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 3        | 17.04         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 3        | 17.04         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 16       | 17.04         |
| (1,1536) | 1:A:6:GLN:H    | 1:A:30:PRO:HB2  | 19       | 17.04         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 9        | 17.04         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 12       | 17.04         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 3        | 17.04         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 17       | 17.04         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 17       | 17.04         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 17       | 17.04         |
| (1,1174) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HA   | 7        | 17.04         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 13       | 17.04         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 13       | 17.04         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 2        | 17.04         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 2        | 17.04         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 8        | 17.04         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 8        | 17.04         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 10       | 17.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 10       | 17.04         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 11       | 17.03         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 15       | 17.03         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 15       | 17.03         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 2        | 17.03         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 14       | 17.03         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3 | 16       | 17.03         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 18       | 17.03         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 6        | 17.03         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 19       | 17.03         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 3        | 17.03         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 4        | 17.03         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 3        | 17.03         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 20       | 17.03         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 7        | 17.03         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 7        | 17.03         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 6        | 17.02         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H   | 18       | 17.02         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 9        | 17.02         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 15       | 17.02         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 6        | 17.02         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 6        | 17.02         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2 | 1        | 17.02         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 11       | 17.02         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 11       | 17.02         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 10       | 17.02         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2 | 2        | 17.02         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3 | 2        | 17.02         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 8        | 17.02         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 8        | 17.02         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2 | 13       | 17.02         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3 | 13       | 17.02         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 8        | 17.02         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA  | 19       | 17.02         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 16       | 17.02         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 5        | 17.02         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 6        | 17.02         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H   | 20       | 17.02         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 16       | 17.02         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 3        | 17.02         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H   | 7        | 17.02         |
| (1,1847) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HA  | 2        | 17.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 8        | 17.02         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 12       | 17.02         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 14       | 17.02         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 3        | 17.01         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 3        | 17.01         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 16       | 17.01         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 2        | 17.01         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 14       | 17.01         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 14       | 17.01         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 12       | 17.01         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 12       | 17.01         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 9        | 17.01         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 6        | 17.01         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 6        | 17.01         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 3        | 17.01         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 6        | 17.01         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 6        | 17.01         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 6        | 17.01         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 13       | 17.01         |
| (1,2711) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HA   | 16       | 17.01         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 18       | 17.01         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 3        | 17.01         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 9        | 17.01         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 1        | 17.01         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 9        | 17.01         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 13       | 17.01         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 13       | 17.01         |
| (1,1856) | 1:A:6:GLN:HE21 | 1:A:34:ALA:H    | 16       | 17.01         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 8        | 17.01         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 13       | 17.01         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 15       | 17.01         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 8        | 17.01         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 9        | 17.01         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 9        | 17.01         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 12       | 17.01         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 12       | 17.01         |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 19       | 17.0          |
| (1,825)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:H    | 20       | 17.0          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 3        | 17.0          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 3        | 17.0          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 3        | 17.0          |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 5        | 17.0          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 10       | 17.0          |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 10       | 17.0          |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 10       | 17.0          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 13       | 17.0          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 12       | 17.0          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 12       | 17.0          |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3 | 1        | 17.0          |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 5        | 17.0          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 2        | 17.0          |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2 | 13       | 17.0          |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 15       | 17.0          |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 15       | 17.0          |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 2        | 17.0          |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 4        | 17.0          |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 5        | 17.0          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1 | 5        | 17.0          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2 | 5        | 17.0          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 5        | 17.0          |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA  | 5        | 17.0          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 14       | 17.0          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 14       | 17.0          |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 19       | 17.0          |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 13       | 17.0          |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 11       | 17.0          |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 11       | 17.0          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 14       | 17.0          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 14       | 17.0          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 15       | 17.0          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 15       | 17.0          |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 18       | 17.0          |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 20       | 17.0          |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 11       | 16.99         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 11       | 16.99         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 1        | 16.99         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 1        | 16.99         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 13       | 16.99         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 13       | 16.99         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 2        | 16.99         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 5        | 16.99         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 5        | 16.99         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 10       | 16.99         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 8        | 16.99         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 8        | 16.99         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 11       | 16.99         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 8        | 16.99         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 10       | 16.99         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 14       | 16.99         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 10       | 16.99         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 10       | 16.99         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H    | 19       | 16.99         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 12       | 16.99         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 6        | 16.98         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 4        | 16.98         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 4        | 16.98         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 2        | 16.98         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 5        | 16.98         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 16.98         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 16.98         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 13       | 16.98         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 17       | 16.98         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 1        | 16.98         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 8        | 16.98         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 5        | 16.98         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 5        | 16.98         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 3        | 16.98         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 3        | 16.98         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 3        | 16.98         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 4        | 16.98         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 12       | 16.98         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H    | 13       | 16.98         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 15       | 16.98         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 12       | 16.98         |
| (1,2557) | 1:A:10:GLY:HA3 | 1:A:28:SER:H    | 17       | 16.98         |
| (1,2311) | 1:A:9:PRO:HG2  | 1:A:17:GLY:H    | 14       | 16.98         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 8        | 16.98         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H    | 5        | 16.98         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 14       | 16.98         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 12       | 16.98         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 16       | 16.98         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 4        | 16.98         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 4        | 16.98         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 3        | 16.98         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 3        | 16.98         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 7        | 16.98         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 7        | 16.98         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 7        | 16.98         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 11       | 16.97         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 12       | 16.97         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 14       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 17       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 17       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 17       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 17       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 17       | 16.97         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 17       | 16.97         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2 | 11       | 16.97         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2 | 9        | 16.97         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3 | 9        | 16.97         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 5        | 16.97         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 15       | 16.97         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 15       | 16.97         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H   | 2        | 16.97         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 13       | 16.97         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 12       | 16.97         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3 | 1        | 16.97         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3 | 11       | 16.97         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 7        | 16.97         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H   | 5        | 16.97         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2 | 20       | 16.97         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3 | 20       | 16.97         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 19       | 16.97         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 11       | 16.97         |
| (1,2241) | 1:A:9:PRO:HB2  | 1:A:34:ALA:H   | 17       | 16.97         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 13       | 16.97         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 2        | 16.97         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 18       | 16.97         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 20       | 16.97         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 3        | 16.97         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 3        | 16.97         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 14       | 16.97         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 14       | 16.97         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 9        | 16.97         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 1        | 16.97         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 1        | 16.97         |
| (1,1035) | 1:A:3:PRO:HD3  | 1:A:29:GLY:H   | 16       | 16.97         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 6        | 16.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 6        | 16.96         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 17       | 16.96         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 10       | 16.96         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 12       | 16.96         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 12       | 16.96         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 17       | 16.96         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 7        | 16.96         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 13       | 16.96         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 13       | 16.96         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 14       | 16.96         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 14       | 16.96         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 14       | 16.96         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 14       | 16.96         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 7        | 16.96         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 7        | 16.96         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 6        | 16.96         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 6        | 16.96         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 11       | 16.96         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 11       | 16.96         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 20       | 16.96         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 8        | 16.96         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 7        | 16.96         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 1        | 16.96         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 19       | 16.96         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 1        | 16.96         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 1        | 16.96         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 11       | 16.96         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 11       | 16.96         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 15       | 16.96         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 4        | 16.96         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 2        | 16.96         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 3        | 16.96         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 9        | 16.95         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA   | 9        | 16.95         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA   | 9        | 16.95         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 5        | 16.95         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 11       | 16.95         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 6        | 16.95         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 6        | 16.95         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 8        | 16.95         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 8        | 16.95         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 12       | 16.95         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 12       | 16.95         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 20       | 16.95         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2 | 9        | 16.95         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3 | 9        | 16.95         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H   | 10       | 16.95         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 10       | 16.95         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 18       | 16.95         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H   | 19       | 16.95         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H   | 10       | 16.95         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 12       | 16.95         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 10       | 16.95         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 8        | 16.95         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 13       | 16.94         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 14       | 16.94         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 15       | 16.94         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 15       | 16.94         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 1        | 16.94         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 5        | 16.94         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H   | 18       | 16.94         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 8        | 16.94         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 15       | 16.94         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1 | 3        | 16.94         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2 | 3        | 16.94         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3 | 3        | 16.94         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1 | 19       | 16.94         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2 | 19       | 16.94         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3 | 19       | 16.94         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 5        | 16.94         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 5        | 16.94         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 5        | 16.94         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 12       | 16.94         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 6        | 16.94         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 17       | 16.94         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 17       | 16.94         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 10       | 16.94         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 12       | 16.94         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 12       | 16.94         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 17       | 16.94         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 1        | 16.94         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 6        | 16.94         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 1        | 16.93         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 13       | 16.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 13       | 16.93         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 5        | 16.93         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 3        | 16.93         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 8        | 16.93         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 11       | 16.93         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 5        | 16.93         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 5        | 16.93         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 17       | 16.93         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 17       | 16.93         |
| (1,3073) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB2  | 15       | 16.93         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 18       | 16.93         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 1        | 16.93         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 16       | 16.93         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 19       | 16.93         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 2        | 16.93         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 4        | 16.93         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 2        | 16.93         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 14       | 16.93         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA   | 11       | 16.93         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 16       | 16.93         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 16       | 16.93         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 20       | 16.93         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 20       | 16.93         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 5        | 16.93         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 5        | 16.93         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA   | 6        | 16.92         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA   | 6        | 16.92         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA   | 11       | 16.92         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA   | 11       | 16.92         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 4        | 16.92         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 12       | 16.92         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 12       | 16.92         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 4        | 16.92         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 15       | 16.92         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 9        | 16.92         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 9        | 16.92         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 18       | 16.92         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 18       | 16.92         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 5        | 16.92         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 14       | 16.92         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 3        | 16.92         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 3        | 16.92         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 15       | 16.92         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 6        | 16.92         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 6        | 16.92         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 6        | 16.92         |
| (1,2710) | 1:A:11:TRP:HB3 | 1:A:31:LYS:H    | 16       | 16.92         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 14       | 16.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 10       | 16.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 10       | 16.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 13       | 16.92         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 13       | 16.92         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 16       | 16.92         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 8        | 16.92         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 8        | 16.92         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 15       | 16.92         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 10       | 16.92         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 15       | 16.92         |
| (1,2235) | 1:A:9:PRO:HB2  | 1:A:32:TYR:H    | 17       | 16.92         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 12       | 16.92         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 16       | 16.92         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 16       | 16.92         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 4        | 16.92         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 4        | 16.92         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 9        | 16.92         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 9        | 16.92         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 4        | 16.92         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 14       | 16.92         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 6        | 16.92         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 6        | 16.92         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 6        | 16.92         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2  | 18       | 16.92         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3  | 18       | 16.92         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 4        | 16.91         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 15       | 16.91         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 11       | 16.91         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 11       | 16.91         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 6        | 16.91         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 6        | 16.91         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 12       | 16.91         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 3        | 16.91         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 15       | 16.91         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2  | 20       | 16.91         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 17       | 16.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 2        | 16.91         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 4        | 16.91         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 14       | 16.91         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 11       | 16.91         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 4        | 16.91         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 4        | 16.91         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 3        | 16.91         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 16       | 16.91         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 16       | 16.91         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 3        | 16.91         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 1        | 16.91         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 9        | 16.91         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 14       | 16.91         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 20       | 16.91         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 1        | 16.91         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2 | 15       | 16.91         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 7        | 16.91         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG2 | 19       | 16.91         |
| (1,1100) | 1:A:4:ASN:H    | 1:A:30:PRO:HG3 | 19       | 16.91         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 4        | 16.91         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 4        | 16.91         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 19       | 16.9          |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 19       | 16.9          |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 10       | 16.9          |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 10       | 16.9          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 18       | 16.9          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 20       | 16.9          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 2        | 16.9          |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 2        | 16.9          |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 16       | 16.9          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 15       | 16.9          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 15       | 16.9          |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 17       | 16.9          |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2 | 10       | 16.9          |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3 | 10       | 16.9          |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 6        | 16.9          |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 6        | 16.9          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1 | 5        | 16.9          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 5        | 16.9          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 5        | 16.9          |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 6        | 16.9          |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 19       | 16.9          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 16       | 16.9          |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 13       | 16.9          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 2        | 16.9          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 2        | 16.9          |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 2        | 16.9          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 7        | 16.9          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 7        | 16.9          |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 6        | 16.9          |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 3        | 16.9          |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 6        | 16.9          |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 16       | 16.9          |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3 | 16       | 16.9          |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 6        | 16.9          |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 5        | 16.89         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 5        | 16.89         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 1        | 16.89         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 18       | 16.89         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 3        | 16.89         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 3        | 16.89         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 15       | 16.89         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1 | 5        | 16.89         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2 | 5        | 16.89         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3 | 5        | 16.89         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 6        | 16.89         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H   | 4        | 16.89         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 6        | 16.89         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 12       | 16.89         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 9        | 16.89         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 11       | 16.89         |
| (1,2256) | 1:A:9:PRO:HB3  | 1:A:17:GLY:H   | 14       | 16.89         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 13       | 16.89         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 13       | 16.89         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H   | 13       | 16.89         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1 | 11       | 16.89         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 16       | 16.89         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 20       | 16.89         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 3        | 16.89         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1 | 15       | 16.88         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 8        | 16.88         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 2        | 16.88         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 2        | 16.88         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 6        | 16.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 6        | 16.88         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 19       | 16.88         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA   | 13       | 16.88         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2  | 18       | 16.88         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3  | 18       | 16.88         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 2        | 16.88         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 5        | 16.88         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 17       | 16.88         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 17       | 16.88         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 17       | 16.88         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 20       | 16.88         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 7        | 16.88         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 7        | 16.88         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 13       | 16.88         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 5        | 16.88         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 12       | 16.88         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 6        | 16.88         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 15       | 16.88         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 15       | 16.88         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 15       | 16.88         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 17       | 16.88         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 2        | 16.87         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 2        | 16.87         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 9        | 16.87         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 11       | 16.87         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 3        | 16.87         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 10       | 16.87         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 15       | 16.87         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 15       | 16.87         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 1        | 16.87         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 7        | 16.87         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 7        | 16.87         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 4        | 16.87         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 7        | 16.87         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 9        | 16.87         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 18       | 16.87         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 18       | 16.87         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 14       | 16.87         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 10       | 16.87         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 17       | 16.87         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 17       | 16.87         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 8        | 16.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 15       | 16.87         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 15       | 16.87         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 12       | 16.87         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 15       | 16.87         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 16       | 16.87         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 2        | 16.87         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 15       | 16.87         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H   | 10       | 16.87         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1 | 19       | 16.87         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2 | 19       | 16.87         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3 | 19       | 16.87         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 9        | 16.87         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 9        | 16.87         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 9        | 16.87         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 3        | 16.87         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 6        | 16.87         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 6        | 16.87         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 1        | 16.87         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 1        | 16.87         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 15       | 16.87         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 15       | 16.87         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 6        | 16.87         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 11       | 16.87         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 4        | 16.87         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 4        | 16.87         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 7        | 16.87         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 5        | 16.86         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 8        | 16.86         |
| (1,946)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HA  | 5        | 16.86         |
| (1,946)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HA  | 5        | 16.86         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 13       | 16.86         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 13       | 16.86         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 6        | 16.86         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H   | 19       | 16.86         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 8        | 16.86         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 8        | 16.86         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2 | 20       | 16.86         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 19       | 16.86         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 19       | 16.86         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 16.86         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 1        | 16.86         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 13       | 16.86         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3 | 14       | 16.86         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 20       | 16.86         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 3        | 16.86         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 8        | 16.86         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 13       | 16.86         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 4        | 16.86         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2 | 8        | 16.86         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3 | 14       | 16.86         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 7        | 16.86         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 13       | 16.86         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 20       | 16.86         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 1        | 16.86         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 1        | 16.86         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 1        | 16.86         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 3        | 16.86         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 6        | 16.86         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 6        | 16.86         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 6        | 16.86         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 12       | 16.86         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 12       | 16.86         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H   | 14       | 16.86         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 2        | 16.86         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H   | 9        | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 5        | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 5        | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 5        | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 11       | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 11       | 16.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 11       | 16.86         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 7        | 16.85         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H   | 10       | 16.85         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 1        | 16.85         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 1        | 16.85         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 11       | 16.85         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 11       | 16.85         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 12       | 16.85         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2 | 13       | 16.85         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 7        | 16.85         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2 | 9        | 16.85         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA  | 6        | 16.85         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3 | 4        | 16.85         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 2        | 16.85         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 2        | 16.85         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 15       | 16.85         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 15       | 16.85         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2 | 15       | 16.85         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 7        | 16.85         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA  | 15       | 16.85         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 18       | 16.85         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 19       | 16.85         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 7        | 16.85         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 13       | 16.85         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2 | 17       | 16.85         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 1        | 16.85         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA  | 13       | 16.85         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 2        | 16.85         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 16       | 16.85         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 18       | 16.85         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 19       | 16.85         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 16       | 16.85         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 2        | 16.85         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 12       | 16.85         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 5        | 16.85         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 9        | 16.85         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 10       | 16.84         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 15       | 16.84         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H   | 11       | 16.84         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 11       | 16.84         |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2 | 10       | 16.84         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 1        | 16.84         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 4        | 16.84         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 4        | 16.84         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 2        | 16.84         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3 | 2        | 16.84         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 5        | 16.84         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 5        | 16.84         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 7        | 16.84         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 9        | 16.84         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 16       | 16.84         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 13       | 16.84         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 18       | 16.84         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 18       | 16.84         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H   | 4        | 16.84         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 9        | 16.84         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 11       | 16.84         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 8        | 16.84         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 8        | 16.84         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 11       | 16.84         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 11       | 16.84         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 18       | 16.84         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 19       | 16.84         |
| (1,1730) | 1:A:6:GLN:HG2  | 1:A:30:PRO:HA  | 20       | 16.84         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H   | 2        | 16.84         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 15       | 16.84         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 15       | 16.84         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 5        | 16.84         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 6        | 16.84         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 6        | 16.84         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA  | 16       | 16.84         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 12       | 16.84         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 12       | 16.84         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 11       | 16.83         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 5        | 16.83         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 5        | 16.83         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 5        | 16.83         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 5        | 16.83         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 2        | 16.83         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 10       | 16.83         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 10       | 16.83         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 15       | 16.83         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 3        | 16.83         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 4        | 16.83         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 5        | 16.83         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 3        | 16.83         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 6        | 16.83         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 11       | 16.83         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 5        | 16.83         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 5        | 16.83         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 10       | 16.83         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 10       | 16.83         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2 | 5        | 16.83         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA  | 10       | 16.83         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA  | 14       | 16.83         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 6        | 16.83         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 11       | 16.83         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 1        | 16.82         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 16       | 16.82         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA  | 14       | 16.82         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 4        | 16.82         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 7        | 16.82         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 7        | 16.82         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 1        | 16.82         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 11       | 16.82         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 1        | 16.82         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 10       | 16.82         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 10       | 16.82         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 10       | 16.82         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 13       | 16.82         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 12       | 16.82         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA  | 8        | 16.82         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2 | 20       | 16.82         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3 | 20       | 16.82         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 7        | 16.82         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 2        | 16.82         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2 | 15       | 16.82         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3 | 15       | 16.82         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 11       | 16.82         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 12       | 16.82         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 11       | 16.82         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 14       | 16.81         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 14       | 16.81         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA  | 15       | 16.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 2        | 16.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 2        | 16.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 2        | 16.81         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3 | 14       | 16.81         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 10       | 16.81         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 10       | 16.81         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1 | 19       | 16.81         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2 | 19       | 16.81         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2 | 16       | 16.81         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3 | 16       | 16.81         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3 | 3        | 16.81         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 4        | 16.81         |
| (1,2956) | 1:A:11:TRP:HZ2 | 1:A:33:CYS:HA  | 17       | 16.81         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 2        | 16.81         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 11       | 16.81         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 4        | 16.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB2  | 17       | 16.81         |
| (1,2759) | 1:A:11:TRP:HD1 | 1:A:30:PRO:HB3  | 17       | 16.81         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 6        | 16.81         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 6        | 16.81         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 9        | 16.81         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 13       | 16.81         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 6        | 16.81         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 7        | 16.81         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 12       | 16.81         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 16       | 16.81         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 20       | 16.81         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 1        | 16.81         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 5        | 16.81         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 4        | 16.81         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 4        | 16.81         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 4        | 16.81         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 3        | 16.81         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 3        | 16.81         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 17       | 16.81         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 17       | 16.81         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 15       | 16.81         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 13       | 16.81         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 11       | 16.81         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 11       | 16.81         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 20       | 16.81         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 17       | 16.8          |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 7        | 16.8          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 8        | 16.8          |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 4        | 16.8          |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 5        | 16.8          |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 13       | 16.8          |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 13       | 16.8          |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 11       | 16.8          |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 10       | 16.8          |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 10       | 16.8          |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 12       | 16.8          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 16       | 16.8          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 16       | 16.8          |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 16       | 16.8          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 9        | 16.8          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 9        | 16.8          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 14       | 16.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 14       | 16.8          |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 3        | 16.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 9        | 16.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 9        | 16.8          |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 10       | 16.8          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 10       | 16.8          |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 1        | 16.8          |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 7        | 16.8          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 2        | 16.8          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 2        | 16.8          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 6        | 16.8          |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 6        | 16.8          |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 11       | 16.8          |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 6        | 16.8          |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 16       | 16.8          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 16       | 16.8          |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 16       | 16.8          |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 7        | 16.8          |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 7        | 16.8          |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 20       | 16.8          |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 20       | 16.8          |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 15       | 16.8          |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 17       | 16.8          |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 7        | 16.8          |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 7        | 16.8          |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 11       | 16.79         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 14       | 16.79         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 15       | 16.79         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 9        | 16.79         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 9        | 16.79         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 20       | 16.79         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 20       | 16.79         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 14       | 16.79         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 2        | 16.79         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 10       | 16.79         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 10       | 16.79         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 4        | 16.79         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 14       | 16.79         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 4        | 16.79         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 14       | 16.79         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 20       | 16.79         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 16       | 16.79         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 2        | 16.79         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3  | 13       | 16.79         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 7        | 16.79         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 7        | 16.79         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 7        | 16.79         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 1        | 16.79         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 5        | 16.79         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 18       | 16.79         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 19       | 16.79         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 14       | 16.79         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 5        | 16.79         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 13       | 16.79         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 18       | 16.79         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 18       | 16.79         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 8        | 16.79         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 8        | 16.79         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 17       | 16.79         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 13       | 16.79         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 20       | 16.79         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 12       | 16.79         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 12       | 16.79         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 16       | 16.79         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 16       | 16.79         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 16       | 16.79         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 18       | 16.79         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 14       | 16.79         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 8        | 16.78         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 14       | 16.78         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 14       | 16.78         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 9        | 16.78         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 8        | 16.78         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 8        | 16.78         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 3        | 16.78         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1  | 17       | 16.78         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 13       | 16.78         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 2        | 16.78         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 2        | 16.78         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 7        | 16.78         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 16       | 16.78         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 18       | 16.78         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 19       | 16.78         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 18       | 16.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 18       | 16.78         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 20       | 16.78         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 11       | 16.78         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 17       | 16.78         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 14       | 16.78         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 10       | 16.78         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 20       | 16.78         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 3        | 16.78         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 3        | 16.78         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 18       | 16.78         |
| (1,2280) | 1:A:9:PRO:HB3  | 1:A:32:TYR:H    | 17       | 16.78         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 3        | 16.78         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 18       | 16.78         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 19       | 16.78         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 5        | 16.78         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 5        | 16.78         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 19       | 16.78         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 19       | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 5        | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 5        | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 18       | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 18       | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2  | 19       | 16.78         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3  | 19       | 16.78         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 14       | 16.78         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 5        | 16.78         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 5        | 16.78         |
| (1,1311) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HA   | 9        | 16.78         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 19       | 16.78         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 2        | 16.77         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 15       | 16.77         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 15       | 16.77         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 9        | 16.77         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 9        | 16.77         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 12       | 16.77         |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 2        | 16.77         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 16.77         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 16.77         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 13       | 16.77         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 11       | 16.77         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 3        | 16.77         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 3        | 16.77         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2 | 10       | 16.77         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3 | 10       | 16.77         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3 | 3        | 16.77         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 18       | 16.77         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 19       | 16.77         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 3        | 16.77         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 3        | 16.77         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 7        | 16.77         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 11       | 16.77         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 7        | 16.77         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 13       | 16.77         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2 | 9        | 16.77         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2 | 4        | 16.77         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3 | 4        | 16.77         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 19       | 16.77         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H   | 7        | 16.77         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H   | 20       | 16.77         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 8        | 16.77         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 12       | 16.77         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 15       | 16.77         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2 | 12       | 16.77         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 10       | 16.77         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 10       | 16.77         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 16       | 16.77         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 16       | 16.77         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA  | 4        | 16.77         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 18       | 16.77         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 12       | 16.77         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2 | 10       | 16.77         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 10       | 16.77         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 6        | 16.77         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 20       | 16.77         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 2        | 16.77         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 2        | 16.77         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2 | 16       | 16.77         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3 | 16       | 16.77         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3 | 1        | 16.77         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1 | 20       | 16.76         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2 | 20       | 16.76         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3 | 20       | 16.76         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 17       | 16.76         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 17       | 16.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 17       | 16.76         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 6        | 16.76         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 7        | 16.76         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 1        | 16.76         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 10       | 16.76         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 17       | 16.76         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 17       | 16.76         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 2        | 16.76         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 4        | 16.76         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 14       | 16.76         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 14       | 16.76         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 2        | 16.76         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 4        | 16.76         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 6        | 16.76         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 6        | 16.76         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 14       | 16.76         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 18       | 16.76         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 20       | 16.76         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 16       | 16.76         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 15       | 16.76         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 11       | 16.76         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 16       | 16.76         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 18       | 16.76         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 19       | 16.76         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 11       | 16.76         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 8        | 16.76         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 9        | 16.76         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 2        | 16.76         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 2        | 16.76         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 2        | 16.76         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 2        | 16.76         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 2        | 16.76         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 7        | 16.76         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 16       | 16.76         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 10       | 16.76         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 12       | 16.76         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 11       | 16.76         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 1        | 16.76         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 19       | 16.75         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 12       | 16.75         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 14       | 16.75         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 19       | 16.75         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 19       | 16.75         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 8        | 16.75         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 20       | 16.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 8        | 16.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 8        | 16.75         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 16       | 16.75         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 20       | 16.75         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 5        | 16.75         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 5        | 16.75         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 12       | 16.75         |
| (1,3024) | 1:A:12:GLY:H   | 1:A:31:LYS:H    | 17       | 16.75         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 3        | 16.75         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 1        | 16.75         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 14       | 16.75         |
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H    | 19       | 16.75         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 12       | 16.75         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 1        | 16.75         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 7        | 16.75         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 7        | 16.75         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 2        | 16.75         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 14       | 16.75         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD2  | 10       | 16.75         |
| (1,1907) | 1:A:6:GLN:HE22 | 1:A:30:PRO:HD3  | 10       | 16.75         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 7        | 16.75         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 7        | 16.75         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 7        | 16.75         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 4        | 16.75         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 2        | 16.74         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 18       | 16.74         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 18       | 16.74         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 8        | 16.74         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 8        | 16.74         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 6        | 16.74         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 6        | 16.74         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 13       | 16.74         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 12       | 16.74         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 9        | 16.74         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 13       | 16.74         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 13       | 16.74         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 15       | 16.74         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 14       | 16.74         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 14       | 16.74         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2810) | 1:A:11:TRP:HE3 | 1:A:29:GLY:H   | 16       | 16.74         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 5        | 16.74         |
| (1,2762) | 1:A:11:TRP:HD1 | 1:A:31:LYS:H   | 17       | 16.74         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H   | 13       | 16.74         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1 | 17       | 16.74         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2 | 17       | 16.74         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3 | 17       | 16.74         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 8        | 16.74         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 20       | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 7        | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 9        | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 16       | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 18       | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 19       | 16.74         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 20       | 16.74         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 14       | 16.74         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H   | 2        | 16.74         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 13       | 16.74         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 9        | 16.74         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 9        | 16.74         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD2 | 2        | 16.74         |
| (1,1845) | 1:A:6:GLN:HE21 | 1:A:30:PRO:HD3 | 2        | 16.74         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2 | 9        | 16.73         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2 | 9        | 16.73         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2 | 3        | 16.73         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3 | 3        | 16.73         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1 | 17       | 16.73         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2 | 17       | 16.73         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3 | 17       | 16.73         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2 | 18       | 16.73         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3 | 18       | 16.73         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 3        | 16.73         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA  | 13       | 16.73         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3 | 6        | 16.73         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3 | 14       | 16.73         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2 | 6        | 16.73         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3 | 6        | 16.73         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2 | 15       | 16.73         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3 | 15       | 16.73         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3 | 5        | 16.73         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3 | 6        | 16.73         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H   | 12       | 16.73         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 6        | 16.73         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 14       | 16.73         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 12       | 16.73         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 2        | 16.73         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 7        | 16.73         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 2        | 16.73         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 12       | 16.73         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 12       | 16.73         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 12       | 16.73         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 14       | 16.73         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 7        | 16.73         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2  | 20       | 16.73         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3  | 20       | 16.73         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 5        | 16.73         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 5        | 16.72         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 12       | 16.72         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 12       | 16.72         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 20       | 16.72         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 20       | 16.72         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 1        | 16.72         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 9        | 16.72         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 8        | 16.72         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 13       | 16.72         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 13       | 16.72         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 5        | 16.72         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 5        | 16.72         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 13       | 16.72         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 13       | 16.72         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 15       | 16.72         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 15       | 16.72         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 10       | 16.72         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 10       | 16.72         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 10       | 16.72         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 10       | 16.72         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 6        | 16.72         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 6        | 16.72         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 8        | 16.72         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 2        | 16.72         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 2        | 16.72         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 4        | 16.72         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 4        | 16.72         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 1        | 16.72         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 10       | 16.72         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 17       | 16.72         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 17       | 16.72         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 7        | 16.72         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 7        | 16.72         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 17       | 16.72         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 17       | 16.72         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 17       | 16.72         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 18       | 16.72         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 18       | 16.72         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 10       | 16.72         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 8        | 16.72         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 1        | 16.72         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 2        | 16.72         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 15       | 16.72         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 1        | 16.72         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 1        | 16.72         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 1        | 16.72         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 16       | 16.71         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 20       | 16.71         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 13       | 16.71         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 13       | 16.71         |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2  | 15       | 16.71         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 11       | 16.71         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 11       | 16.71         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 15       | 16.71         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 20       | 16.71         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 12       | 16.71         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 20       | 16.71         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 6        | 16.71         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 6        | 16.71         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 3        | 16.71         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 9        | 16.71         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 16       | 16.71         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 16       | 16.71         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 16       | 16.71         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 5        | 16.71         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 5        | 16.71         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 18       | 16.71         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 1        | 16.71         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 8        | 16.71         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 8        | 16.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 15       | 16.71         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 4        | 16.71         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 4        | 16.71         |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 4        | 16.71         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 17       | 16.71         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 2        | 16.71         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 2        | 16.71         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 13       | 16.71         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 13       | 16.71         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 10       | 16.71         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 4        | 16.71         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 4        | 16.71         |
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 18       | 16.7          |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 7        | 16.7          |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 2        | 16.7          |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 2        | 16.7          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 7        | 16.7          |
| (1,744)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:H    | 16       | 16.7          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 6        | 16.7          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 6        | 16.7          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 15       | 16.7          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 15       | 16.7          |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 16       | 16.7          |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 16       | 16.7          |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 18       | 16.7          |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 15       | 16.7          |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 11       | 16.7          |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 11       | 16.7          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 19       | 16.7          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 19       | 16.7          |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 7        | 16.7          |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 10       | 16.7          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 5        | 16.7          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 5        | 16.7          |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 8        | 16.7          |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 13       | 16.7          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 10       | 16.7          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 10       | 16.7          |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 7        | 16.7          |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 8        | 16.7          |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 14       | 16.7          |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 11       | 16.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 7        | 16.7          |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 16       | 16.7          |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 13       | 16.7          |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 13       | 16.7          |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 6        | 16.7          |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 5        | 16.7          |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 8        | 16.7          |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 8        | 16.69         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 8        | 16.69         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 1        | 16.69         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 19       | 16.69         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 16       | 16.69         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 16       | 16.69         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 5        | 16.69         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 2        | 16.69         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 2        | 16.69         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 9        | 16.69         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 4        | 16.69         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 4        | 16.69         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 7        | 16.69         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 3        | 16.69         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 3        | 16.69         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 1        | 16.69         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 1        | 16.69         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 10       | 16.69         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 11       | 16.69         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 11       | 16.69         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 13       | 16.69         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 11       | 16.69         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 11       | 16.69         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 5        | 16.69         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 5        | 16.69         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 12       | 16.69         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 9        | 16.69         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 9        | 16.69         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 9        | 16.69         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 12       | 16.69         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 4        | 16.69         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 8        | 16.69         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 3        | 16.69         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 2        | 16.69         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 5        | 16.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,988)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:H    | 19       | 16.68         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 7        | 16.68         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 10       | 16.68         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 8        | 16.68         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 9        | 16.68         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 10       | 16.68         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 10       | 16.68         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 10       | 16.68         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 14       | 16.68         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 14       | 16.68         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 11       | 16.68         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 3        | 16.68         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 10       | 16.68         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 7        | 16.68         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 7        | 16.68         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 1        | 16.68         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 5        | 16.68         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 5        | 16.68         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 1        | 16.68         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 11       | 16.68         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 3        | 16.68         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 3        | 16.68         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 1        | 16.68         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 1        | 16.68         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 1        | 16.68         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 13       | 16.68         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 11       | 16.68         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 17       | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 7        | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 7        | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 7        | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 16       | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 16       | 16.68         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 16       | 16.68         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 20       | 16.68         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 20       | 16.68         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 16       | 16.68         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 16       | 16.68         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 9        | 16.68         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 9        | 16.68         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 20       | 16.68         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 13       | 16.68         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 15       | 16.68         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 18       | 16.67         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 18       | 16.67         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 20       | 16.67         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 20       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 11       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 11       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 11       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 11       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 11       | 16.67         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 11       | 16.67         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 17       | 16.67         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 6        | 16.67         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 14       | 16.67         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 1        | 16.67         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 1        | 16.67         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 13       | 16.67         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 13       | 16.67         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 13       | 16.67         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 11       | 16.67         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 11       | 16.67         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 12       | 16.67         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 12       | 16.67         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 7        | 16.67         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 9        | 16.67         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 5        | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 2        | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 2        | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 9        | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 9        | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 12       | 16.67         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 12       | 16.67         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 17       | 16.67         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 19       | 16.67         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 19       | 16.67         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 6        | 16.67         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 8        | 16.67         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 16       | 16.67         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 9        | 16.67         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 2        | 16.67         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 4        | 16.67         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 12       | 16.67         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 12       | 16.67         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 18       | 16.67         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 18       | 16.67         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 1        | 16.67         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 9        | 16.67         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 1        | 16.67         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 10       | 16.67         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 5        | 16.67         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 5        | 16.67         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 19       | 16.66         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 19       | 16.66         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 11       | 16.66         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1  | 11       | 16.66         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 4        | 16.66         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 6        | 16.66         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 10       | 16.66         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 13       | 16.66         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 12       | 16.66         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 12       | 16.66         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 7        | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 4        | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 4        | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 8        | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 8        | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 10       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 10       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 18       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 18       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 19       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 19       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 20       | 16.66         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 20       | 16.66         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 14       | 16.66         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1  | 8        | 16.66         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2  | 8        | 16.66         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3  | 8        | 16.66         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 16       | 16.66         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 16       | 16.66         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 19       | 16.66         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 19       | 16.66         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 12       | 16.66         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 12       | 16.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 17       | 16.66         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 17       | 16.66         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 7        | 16.66         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 7        | 16.66         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 5        | 16.66         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 17       | 16.66         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 12       | 16.65         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 12       | 16.65         |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 16       | 16.65         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 16       | 16.65         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 3        | 16.65         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 3        | 16.65         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 1        | 16.65         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 1        | 16.65         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 14       | 16.65         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 6        | 16.65         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 10       | 16.65         |
| (1,738)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HB2  | 15       | 16.65         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 13       | 16.65         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 9        | 16.65         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB2  | 17       | 16.65         |
| (1,655)  | 1:A:2:GLY:H    | 1:A:30:PRO:HB3  | 17       | 16.65         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 12       | 16.65         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 12       | 16.65         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 16       | 16.65         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 13       | 16.65         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 15       | 16.65         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 15       | 16.65         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 15       | 16.65         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 10       | 16.65         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 10       | 16.65         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 18       | 16.65         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 19       | 16.65         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 5        | 16.65         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 9        | 16.65         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 7        | 16.65         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 14       | 16.65         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 14       | 16.65         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 6        | 16.65         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 11       | 16.65         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 11       | 16.65         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 11       | 16.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 4        | 16.65         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 4        | 16.65         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 1        | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 7        | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 7        | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 7        | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 16       | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 16       | 16.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 16       | 16.65         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 20       | 16.65         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 20       | 16.65         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 20       | 16.65         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 5        | 16.65         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 1        | 16.65         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 3        | 16.65         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 15       | 16.65         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 3        | 16.65         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 18       | 16.65         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 18       | 16.65         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 18       | 16.65         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 13       | 16.65         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 20       | 16.65         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 20       | 16.65         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 20       | 16.65         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 9        | 16.64         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2  | 1        | 16.64         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2  | 1        | 16.64         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 15       | 16.64         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 15       | 16.64         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 15       | 16.64         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 19       | 16.64         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 19       | 16.64         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 4        | 16.64         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 4        | 16.64         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 4        | 16.64         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 11       | 16.64         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 20       | 16.64         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 12       | 16.64         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 15       | 16.64         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 3        | 16.64         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 5        | 16.64         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 11       | 16.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 17       | 16.64         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 17       | 16.64         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 17       | 16.64         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 13       | 16.64         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 11       | 16.64         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 20       | 16.64         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 8        | 16.64         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 8        | 16.64         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 10       | 16.64         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 10       | 16.64         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 15       | 16.64         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 15       | 16.64         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 16       | 16.64         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 10       | 16.64         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 5        | 16.64         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 16       | 16.64         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2  | 13       | 16.64         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 4        | 16.64         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 18       | 16.63         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 7        | 16.63         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 17       | 16.63         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 17       | 16.63         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 6        | 16.63         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 15       | 16.63         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 4        | 16.63         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 9        | 16.63         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 9        | 16.63         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 6        | 16.63         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 11       | 16.63         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 16       | 16.63         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 16       | 16.63         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 20       | 16.63         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 3        | 16.63         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 3        | 16.63         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 15       | 16.63         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 6        | 16.63         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 14       | 16.63         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 19       | 16.63         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 19       | 16.63         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 19       | 16.63         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 9        | 16.63         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 14       | 16.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 16       | 16.62         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 19       | 16.62         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 20       | 16.62         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 4        | 16.62         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 8        | 16.62         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 11       | 16.62         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 10       | 16.62         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 10       | 16.62         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 12       | 16.62         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 14       | 16.62         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 8        | 16.62         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 19       | 16.62         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 6        | 16.62         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 6        | 16.62         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 2        | 16.62         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 2        | 16.62         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 8        | 16.62         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 20       | 16.62         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 10       | 16.62         |
| (1,3026) | 1:A:12:GLY:H   | 1:A:31:LYS:HB2  | 17       | 16.62         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 6        | 16.62         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 15       | 16.62         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 15       | 16.62         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 5        | 16.62         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 5        | 16.62         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 17       | 16.62         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 16       | 16.62         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 16       | 16.62         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 10       | 16.62         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 10       | 16.62         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 16       | 16.62         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 8        | 16.62         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 3        | 16.62         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 14       | 16.62         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 12       | 16.62         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 8        | 16.62         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 8        | 16.62         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 6        | 16.62         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 6        | 16.62         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 17       | 16.62         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 12       | 16.62         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 12       | 16.62         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 8        | 16.61         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 8        | 16.61         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 1        | 16.61         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 1        | 16.61         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 18       | 16.61         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 18       | 16.61         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 8        | 16.61         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 8        | 16.61         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 9        | 16.61         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 1        | 16.61         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 1        | 16.61         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 5        | 16.61         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 11       | 16.61         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 11       | 16.61         |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 15       | 16.61         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 3        | 16.61         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 3        | 16.61         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 11       | 16.61         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 13       | 16.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 20       | 16.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 20       | 16.61         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 20       | 16.61         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 20       | 16.61         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 15       | 16.61         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 15       | 16.61         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 18       | 16.61         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 4        | 16.61         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 8        | 16.61         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 7        | 16.61         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 16       | 16.61         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 16       | 16.61         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 18       | 16.61         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 18       | 16.61         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 3        | 16.6          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 11       | 16.6          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 11       | 16.6          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 11       | 16.6          |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 5        | 16.6          |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 19       | 16.6          |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 10       | 16.6          |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 2        | 16.6          |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 17       | 16.6          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 17       | 16.6          |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 17       | 16.6          |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 17       | 16.6          |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 9        | 16.6          |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 20       | 16.6          |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 17       | 16.6          |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 17       | 16.6          |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 12       | 16.6          |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 14       | 16.6          |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 5        | 16.6          |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 6        | 16.6          |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 6        | 16.6          |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 2        | 16.6          |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 20       | 16.6          |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 6        | 16.6          |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 13       | 16.6          |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 14       | 16.6          |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 18       | 16.6          |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 3        | 16.6          |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 10       | 16.6          |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 17       | 16.6          |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 18       | 16.6          |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 17       | 16.6          |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 14       | 16.6          |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 14       | 16.6          |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 19       | 16.6          |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 19       | 16.6          |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 15       | 16.6          |
| (1,942)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HB2  | 7        | 16.59         |
| (1,942)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HB2  | 7        | 16.59         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 6        | 16.59         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 5        | 16.59         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 3        | 16.59         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 7        | 16.59         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 7        | 16.59         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 15       | 16.59         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 15       | 16.59         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 7        | 16.59         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 13       | 16.59         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 13       | 16.59         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 12       | 16.59         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 15       | 16.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 6        | 16.59         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 11       | 16.59         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 11       | 16.59         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 11       | 16.59         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2 | 1        | 16.59         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 17       | 16.59         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 17       | 16.59         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 17       | 16.59         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA  | 3        | 16.59         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 7        | 16.59         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 19       | 16.59         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 14       | 16.59         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 14       | 16.59         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA  | 10       | 16.59         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 16       | 16.59         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE  | 2        | 16.59         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 8        | 16.59         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3 | 8        | 16.59         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 16       | 16.59         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 20       | 16.59         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 19       | 16.58         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 15       | 16.58         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 15       | 16.58         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3 | 14       | 16.58         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2 | 7        | 16.58         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2 | 4        | 16.58         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1 | 9        | 16.58         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2 | 9        | 16.58         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2 | 19       | 16.58         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3 | 18       | 16.58         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 3        | 16.58         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2 | 15       | 16.58         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3 | 15       | 16.58         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 16       | 16.58         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 15       | 16.58         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 14       | 16.58         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 14       | 16.58         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 14       | 16.58         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2 | 8        | 16.58         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 5        | 16.58         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 10       | 16.58         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H   | 17       | 16.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 4        | 16.58         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 3        | 16.58         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 3        | 16.58         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 3        | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 3        | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 3        | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 9        | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 9        | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 14       | 16.58         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 14       | 16.58         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 13       | 16.58         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 2        | 16.58         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 9        | 16.58         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 3        | 16.57         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 3        | 16.57         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 7        | 16.57         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 8        | 16.57         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 9        | 16.57         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 6        | 16.57         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 6        | 16.57         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 12       | 16.57         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 12       | 16.57         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 12       | 16.57         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 10       | 16.57         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 10       | 16.57         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 15       | 16.57         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 15       | 16.57         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 19       | 16.57         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 8        | 16.57         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 9        | 16.57         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 1        | 16.57         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 7        | 16.57         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 2        | 16.57         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 10       | 16.57         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 13       | 16.57         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 13       | 16.57         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 10       | 16.57         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 19       | 16.57         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 19       | 16.57         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 19       | 16.57         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 1        | 16.57         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 18       | 16.57         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3 | 18       | 16.57         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 11       | 16.57         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3 | 11       | 16.57         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 12       | 16.57         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3 | 12       | 16.57         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA  | 19       | 16.57         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 4        | 16.57         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 4        | 16.57         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA  | 18       | 16.57         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 10       | 16.57         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 10       | 16.57         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 10       | 16.57         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H   | 14       | 16.56         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H   | 9        | 16.56         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H   | 18       | 16.56         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 13       | 16.56         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3 | 12       | 16.56         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 8        | 16.56         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2 | 16       | 16.56         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3 | 16       | 16.56         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1 | 1        | 16.56         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 5        | 16.56         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 10       | 16.56         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2 | 1        | 16.56         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3 | 1        | 16.56         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2 | 11       | 16.56         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3 | 11       | 16.56         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA  | 5        | 16.56         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 15       | 16.56         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2 | 20       | 16.56         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3 | 20       | 16.56         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 5        | 16.56         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H   | 20       | 16.56         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 4        | 16.56         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 4        | 16.56         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2 | 18       | 16.56         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3 | 18       | 16.56         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2 | 1        | 16.56         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 5        | 16.56         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2 | 3        | 16.56         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H   | 10       | 16.56         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2 | 11       | 16.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 11       | 16.56         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 6        | 16.56         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 12       | 16.56         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 12       | 16.56         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 4        | 16.55         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 13       | 16.55         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 17       | 16.55         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 20       | 16.55         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 12       | 16.55         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 16       | 16.55         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 14       | 16.55         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1  | 9        | 16.55         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 13       | 16.55         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 13       | 16.55         |
| (1,2576) | 1:A:10:GLY:HA3 | 1:A:35:HIS:H    | 17       | 16.55         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2  | 18       | 16.55         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 11       | 16.55         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 11       | 16.55         |
| (1,2287) | 1:A:9:PRO:HB3  | 1:A:34:ALA:H    | 17       | 16.55         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 15       | 16.55         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 5        | 16.55         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 16       | 16.55         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 2        | 16.55         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 15       | 16.55         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 17       | 16.55         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 17       | 16.55         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 19       | 16.55         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 6        | 16.55         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 6        | 16.55         |
| (1,826)  | 1:A:3:PRO:HB2  | 1:A:33:CYS:HA   | 7        | 16.54         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 2        | 16.54         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 12       | 16.54         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 14       | 16.54         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 12       | 16.54         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 12       | 16.54         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 20       | 16.54         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 17       | 16.54         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 14       | 16.54         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 9        | 16.54         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 9        | 16.54         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 9        | 16.54         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 8        | 16.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 8        | 16.54         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 18       | 16.54         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 19       | 16.54         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 10       | 16.54         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 16       | 16.54         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 6        | 16.54         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 6        | 16.54         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 6        | 16.54         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 13       | 16.54         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 15       | 16.54         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 10       | 16.54         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 4        | 16.54         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 3        | 16.54         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 6        | 16.54         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 16       | 16.54         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 8        | 16.54         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 6        | 16.54         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 6        | 16.54         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 3        | 16.54         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 3        | 16.54         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 6        | 16.54         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 6        | 16.54         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 2        | 16.54         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 12       | 16.54         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 20       | 16.54         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H    | 18       | 16.54         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 9        | 16.54         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 9        | 16.54         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 5        | 16.54         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 5        | 16.54         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 2        | 16.54         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 2        | 16.54         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 2        | 16.53         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 2        | 16.53         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 1        | 16.53         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 1        | 16.53         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 11       | 16.53         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 17       | 16.53         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 5        | 16.53         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 7        | 16.53         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 1        | 16.53         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 8        | 16.53         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 17       | 16.53         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 17       | 16.53         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 9        | 16.53         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 9        | 16.53         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 17       | 16.53         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 17       | 16.53         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 5        | 16.53         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 5        | 16.53         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 16       | 16.53         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 11       | 16.53         |
| (1,2633) | 1:A:11:TRP:HA  | 1:A:32:TYR:H    | 16       | 16.53         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 12       | 16.53         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 14       | 16.53         |
| (1,2310) | 1:A:9:PRO:HG2  | 1:A:16:GLY:HA3  | 3        | 16.53         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 12       | 16.53         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 1        | 16.53         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 1        | 16.53         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 3        | 16.53         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 18       | 16.53         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 6        | 16.53         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 6        | 16.53         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD2  | 19       | 16.53         |
| (1,1375) | 1:A:4:ASN:HD22 | 1:A:30:PRO:HD3  | 19       | 16.53         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 13       | 16.53         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 8        | 16.53         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 18       | 16.52         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 6        | 16.52         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 6        | 16.52         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 16       | 16.52         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1  | 4        | 16.52         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 7        | 16.52         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 13       | 16.52         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 7        | 16.52         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 7        | 16.52         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 16       | 16.52         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 3        | 16.52         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 3        | 16.52         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 12       | 16.52         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 12       | 16.52         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 8        | 16.52         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 13       | 16.52         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 19       | 16.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 7        | 16.52         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 7        | 16.52         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 6        | 16.52         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 12       | 16.52         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 7        | 16.52         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 7        | 16.52         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 17       | 16.52         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 20       | 16.52         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 1        | 16.52         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 1        | 16.52         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 5        | 16.52         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 9        | 16.52         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 4        | 16.52         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 5        | 16.52         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 2        | 16.52         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 13       | 16.52         |
| (1,1378) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB2  | 6        | 16.52         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 10       | 16.52         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 10       | 16.52         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 19       | 16.52         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 5        | 16.51         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 4        | 16.51         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 4        | 16.51         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 12       | 16.51         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 3        | 16.51         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 3        | 16.51         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 19       | 16.51         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 19       | 16.51         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 6        | 16.51         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 6        | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 18       | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 18       | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 18       | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 20       | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 20       | 16.51         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 20       | 16.51         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 1        | 16.51         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 1        | 16.51         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 3        | 16.51         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 3        | 16.51         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 3        | 16.51         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 2        | 16.51         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 2        | 16.51         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ1 | 18       | 16.51         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ2 | 18       | 16.51         |
| (1,2566) | 1:A:10:GLY:HA3 | 1:A:31:LYS:HZ3 | 18       | 16.51         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 15       | 16.51         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 15       | 16.51         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 2        | 16.51         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 11       | 16.51         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 13       | 16.51         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H   | 17       | 16.51         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2 | 10       | 16.51         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA  | 13       | 16.51         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 7        | 16.51         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2 | 4        | 16.51         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3 | 4        | 16.51         |
| (1,1385) | 1:A:4:ASN:HD22 | 1:A:33:CYS:H   | 19       | 16.51         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 17       | 16.51         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1 | 12       | 16.51         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2 | 12       | 16.51         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3 | 12       | 16.51         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 8        | 16.5          |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 19       | 16.5          |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 19       | 16.5          |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H   | 20       | 16.5          |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 17       | 16.5          |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2 | 11       | 16.5          |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3 | 11       | 16.5          |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 7        | 16.5          |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2 | 1        | 16.5          |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3 | 1        | 16.5          |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 19       | 16.5          |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3 | 2        | 16.5          |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 2        | 16.5          |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 1        | 16.5          |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 8        | 16.5          |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H   | 3        | 16.5          |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H   | 4        | 16.5          |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 7        | 16.5          |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 18       | 16.5          |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 19       | 16.5          |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 20       | 16.5          |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1 | 19       | 16.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2 | 19       | 16.5          |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3 | 19       | 16.5          |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 2        | 16.5          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 12       | 16.5          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 12       | 16.5          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 1        | 16.5          |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 19       | 16.5          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 16       | 16.5          |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H   | 11       | 16.5          |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA  | 19       | 16.5          |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H   | 5        | 16.5          |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3 | 17       | 16.5          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 9        | 16.5          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 9        | 16.5          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 9        | 16.5          |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 3        | 16.5          |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 3        | 16.5          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 4        | 16.5          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3 | 4        | 16.5          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 13       | 16.5          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3 | 13       | 16.5          |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 15       | 16.49         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 15       | 16.49         |
| (1,708)  | 1:A:2:GLY:HA2  | 1:A:35:HIS:HE1 | 1        | 16.49         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 18       | 16.49         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 18       | 16.49         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 14       | 16.49         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 14       | 16.49         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H   | 2        | 16.49         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA  | 14       | 16.49         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H   | 16       | 16.49         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 13       | 16.49         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 13       | 16.49         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 2        | 16.49         |
| (1,2758) | 1:A:11:TRP:HD1 | 1:A:29:GLY:HA3 | 17       | 16.49         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 14       | 16.49         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 1        | 16.49         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 13       | 16.49         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA  | 17       | 16.49         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 11       | 16.49         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 11       | 16.49         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 2        | 16.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 2        | 16.49         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 1        | 16.49         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 1        | 16.48         |
| (1,872)  | 1:A:3:PRO:HB3  | 1:A:29:GLY:H    | 16       | 16.48         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 7        | 16.48         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 7        | 16.48         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 1        | 16.48         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 4        | 16.48         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 5        | 16.48         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 4        | 16.48         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 5        | 16.48         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 4        | 16.48         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 5        | 16.48         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 5        | 16.48         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 5        | 16.48         |
| (1,2712) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HB2  | 15       | 16.48         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 16       | 16.48         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 16       | 16.48         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 14       | 16.48         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 14       | 16.48         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 14       | 16.48         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 16       | 16.48         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 7        | 16.48         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 17       | 16.48         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 17       | 16.48         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 17       | 16.48         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 3        | 16.48         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 12       | 16.48         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 15       | 16.48         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 20       | 16.48         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 20       | 16.48         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 14       | 16.48         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 14       | 16.48         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG2  | 20       | 16.48         |
| (1,1039) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HG3  | 20       | 16.48         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 18       | 16.48         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 17       | 16.47         |
| (1,947)  | 1:A:3:PRO:HG2  | 1:A:35:HIS:HB2  | 20       | 16.47         |
| (1,947)  | 1:A:3:PRO:HG3  | 1:A:35:HIS:HB2  | 20       | 16.47         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 20       | 16.47         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 2        | 16.47         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 9        | 16.47         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 20       | 16.47         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 20       | 16.47         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 10       | 16.47         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 20       | 16.47         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 11       | 16.47         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 11       | 16.47         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 11       | 16.47         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 11       | 16.47         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 6        | 16.47         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 5        | 16.47         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 5        | 16.47         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 6        | 16.47         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 6        | 16.47         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 3        | 16.47         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 2        | 16.47         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H    | 4        | 16.47         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 5        | 16.47         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 15       | 16.47         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 12       | 16.47         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 8        | 16.47         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 5        | 16.47         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 5        | 16.47         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 10       | 16.47         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 10       | 16.47         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 6        | 16.47         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 8        | 16.47         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 7        | 16.47         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 7        | 16.47         |
| (1,1102) | 1:A:4:ASN:H    | 1:A:31:LYS:HA   | 2        | 16.47         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 18       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 14       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 14       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 14       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 14       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 14       | 16.46         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 14       | 16.46         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 13       | 16.46         |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 9        | 16.46         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 2        | 16.46         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 10       | 16.46         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 17       | 16.46         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 9        | 16.46         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 9        | 16.46         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 1        | 16.46         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 1        | 16.46         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 15       | 16.46         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 15       | 16.46         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 3        | 16.46         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 10       | 16.46         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 14       | 16.46         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 18       | 16.46         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 19       | 16.46         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 8        | 16.46         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 6        | 16.46         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 6        | 16.46         |
| (1,1910) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HB2  | 6        | 16.46         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 14       | 16.46         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 3        | 16.46         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 3        | 16.46         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 4        | 16.46         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 9        | 16.46         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 17       | 16.46         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 17       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 12       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 12       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 12       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 13       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 13       | 16.46         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 13       | 16.46         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 17       | 16.45         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 20       | 16.45         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 3        | 16.45         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 4        | 16.45         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 12       | 16.45         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 12       | 16.45         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 12       | 16.45         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 19       | 16.45         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 4        | 16.45         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 10       | 16.45         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 4        | 16.45         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 13       | 16.45         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 6        | 16.45         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 11       | 16.45         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2  | 13       | 16.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3  | 13       | 16.45         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 7        | 16.45         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 18       | 16.45         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 4        | 16.45         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 4        | 16.45         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 20       | 16.45         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 20       | 16.45         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 4        | 16.45         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 4        | 16.45         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 4        | 16.45         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 2        | 16.45         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 2        | 16.45         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 5        | 16.45         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 19       | 16.45         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 20       | 16.45         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 2        | 16.45         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 13       | 16.45         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 14       | 16.45         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 14       | 16.45         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 3        | 16.45         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 6        | 16.45         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 8        | 16.45         |
| (1,1386) | 1:A:4:ASN:HD22 | 1:A:33:CYS:HA   | 7        | 16.45         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 1        | 16.45         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 1        | 16.45         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 3        | 16.45         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 7        | 16.45         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 7        | 16.45         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 5        | 16.44         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 5        | 16.44         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 5        | 16.44         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 1        | 16.44         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 4        | 16.44         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 4        | 16.44         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 3        | 16.44         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 3        | 16.44         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 12       | 16.44         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 12       | 16.44         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 16       | 16.44         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 2        | 16.44         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 5        | 16.44         |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H    | 11       | 16.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 2        | 16.44         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 15       | 16.44         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 1        | 16.44         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 1        | 16.44         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 3        | 16.44         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2  | 18       | 16.44         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 1        | 16.44         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 1        | 16.44         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 15       | 16.44         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 10       | 16.44         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 10       | 16.44         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 10       | 16.44         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 16       | 16.44         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 18       | 16.44         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 19       | 16.44         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 4        | 16.44         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 1        | 16.44         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 1        | 16.44         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 17       | 16.44         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 17       | 16.44         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 17       | 16.44         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 10       | 16.43         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 10       | 16.43         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 18       | 16.43         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 18       | 16.43         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 18       | 16.43         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 17       | 16.43         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 9        | 16.43         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3  | 16       | 16.43         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 6        | 16.43         |
| (1,3025) | 1:A:12:GLY:H   | 1:A:31:LYS:HA   | 17       | 16.43         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 3        | 16.43         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 3        | 16.43         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 4        | 16.43         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 4        | 16.43         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 1        | 16.43         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 2        | 16.43         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 15       | 16.43         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 15       | 16.43         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 20       | 16.43         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 1        | 16.43         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1  | 19       | 16.43         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 11       | 16.43         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 11       | 16.43         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 9        | 16.43         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 5        | 16.43         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA  | 11       | 16.43         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H   | 10       | 16.43         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H   | 13       | 16.43         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 4        | 16.43         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 4        | 16.43         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 4        | 16.43         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 17       | 16.42         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2 | 6        | 16.42         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3 | 6        | 16.42         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H   | 2        | 16.42         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 8        | 16.42         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3 | 8        | 16.42         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 2        | 16.42         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 2        | 16.42         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 14       | 16.42         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 14       | 16.42         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 17       | 16.42         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 17       | 16.42         |
| (1,3075) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HB3 | 18       | 16.42         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2 | 17       | 16.42         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3 | 17       | 16.42         |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3 | 18       | 16.42         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 12       | 16.42         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 12       | 16.42         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 3        | 16.42         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 5        | 16.42         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 5        | 16.42         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 10       | 16.42         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 10       | 16.42         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 10       | 16.42         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3 | 4        | 16.42         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 6        | 16.42         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 6        | 16.42         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 6        | 16.42         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 9        | 16.42         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 1        | 16.42         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA  | 9        | 16.42         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H   | 11       | 16.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 20       | 16.42         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 6        | 16.42         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 6        | 16.42         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 8        | 16.42         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 8        | 16.42         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 15       | 16.42         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 15       | 16.42         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 7        | 16.42         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 8        | 16.42         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 14       | 16.42         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 14       | 16.42         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 14       | 16.42         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 4        | 16.41         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 3        | 16.41         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 18       | 16.41         |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H    | 19       | 16.41         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 1        | 16.41         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 1        | 16.41         |
| (1,658)  | 1:A:2:GLY:H    | 1:A:31:LYS:H    | 17       | 16.41         |
| (1,533)  | 1:A:1:SER:HA   | 1:A:31:LYS:HG3  | 16       | 16.41         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 6        | 16.41         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 19       | 16.41         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 19       | 16.41         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 12       | 16.41         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 7        | 16.41         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 17       | 16.41         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 17       | 16.41         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 7        | 16.41         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 17       | 16.41         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 4        | 16.41         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 4        | 16.41         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 12       | 16.41         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 9        | 16.41         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 12       | 16.41         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 12       | 16.41         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 6        | 16.41         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 6        | 16.41         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 9        | 16.41         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 9        | 16.41         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 16       | 16.41         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 16       | 16.41         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 14       | 16.41         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 8        | 16.41         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 8        | 16.41         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H   | 15       | 16.41         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 6        | 16.41         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 12       | 16.41         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 7        | 16.41         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 7        | 16.41         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 12       | 16.41         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1 | 15       | 16.41         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2 | 15       | 16.41         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3 | 15       | 16.41         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 17       | 16.4          |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 18       | 16.4          |
| (1,705)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:H   | 16       | 16.4          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1 | 7        | 16.4          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2 | 7        | 16.4          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3 | 7        | 16.4          |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2 | 14       | 16.4          |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 13       | 16.4          |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 13       | 16.4          |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2 | 2        | 16.4          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1 | 8        | 16.4          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2 | 8        | 16.4          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2 | 16       | 16.4          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3 | 16       | 16.4          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2 | 20       | 16.4          |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3 | 20       | 16.4          |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 2        | 16.4          |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 2        | 16.4          |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 10       | 16.4          |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 10       | 16.4          |
| (1,2964) | 1:A:11:TRP:HH2 | 1:A:16:GLY:H   | 9        | 16.4          |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 20       | 16.4          |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H   | 7        | 16.4          |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 2        | 16.4          |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 2        | 16.4          |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2 | 11       | 16.4          |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3 | 11       | 16.4          |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2 | 15       | 16.4          |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA  | 13       | 16.4          |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 18       | 16.4          |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H   | 19       | 16.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 4        | 16.4          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 4        | 16.4          |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 3        | 16.4          |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 6        | 16.4          |
| (1,2128) | 1:A:8:GLY:HA3  | 1:A:30:PRO:HB2  | 17       | 16.4          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 16       | 16.4          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 16       | 16.4          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 1        | 16.4          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 1        | 16.4          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 1        | 16.4          |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 10       | 16.4          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 1        | 16.4          |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 1        | 16.4          |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 17       | 16.39         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 17       | 16.39         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 17       | 16.39         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 18       | 16.39         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 18       | 16.39         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 11       | 16.39         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 15       | 16.39         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 18       | 16.39         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 18       | 16.39         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 11       | 16.39         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 11       | 16.39         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 12       | 16.39         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 8        | 16.39         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 7        | 16.39         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 7        | 16.39         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 3        | 16.39         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 2        | 16.39         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 2        | 16.39         |
| (1,2601) | 1:A:11:TRP:H   | 1:A:29:GLY:H    | 16       | 16.39         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 3        | 16.39         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 3        | 16.39         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 13       | 16.39         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 1        | 16.39         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 11       | 16.39         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 4        | 16.39         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 4        | 16.39         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 5        | 16.39         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 7        | 16.39         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 14       | 16.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 14       | 16.39         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 16       | 16.39         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 16       | 16.39         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 17       | 16.38         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 17       | 16.38         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 16       | 16.38         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 16       | 16.38         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 16       | 16.38         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 16       | 16.38         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 14       | 16.38         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 14       | 16.38         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 14       | 16.38         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 14       | 16.38         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 14       | 16.38         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 2        | 16.38         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 2        | 16.38         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 19       | 16.38         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 19       | 16.38         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 5        | 16.38         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 17       | 16.38         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 7        | 16.38         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 7        | 16.38         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 6        | 16.38         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 6        | 16.38         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 10       | 16.38         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 10       | 16.38         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 10       | 16.38         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 7        | 16.38         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 18       | 16.38         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 19       | 16.38         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 20       | 16.38         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 8        | 16.38         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 3        | 16.38         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 11       | 16.38         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 2        | 16.38         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 2        | 16.38         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 10       | 16.38         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 10       | 16.38         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 10       | 16.38         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 15       | 16.38         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 15       | 16.38         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 4        | 16.38         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 6        | 16.38         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE21 | 16       | 16.37         |
| (1,859)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:HE22 | 16       | 16.37         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 11       | 16.37         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 6        | 16.37         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 6        | 16.37         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 20       | 16.37         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 20       | 16.37         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 16       | 16.37         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 16       | 16.37         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 12       | 16.37         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 12       | 16.37         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 8        | 16.37         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 8        | 16.37         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 1        | 16.37         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 2        | 16.37         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 4        | 16.37         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 6        | 16.37         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 10       | 16.37         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 16       | 16.37         |
| (1,2239) | 1:A:9:PRO:HB2  | 1:A:33:CYS:H    | 17       | 16.37         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 11       | 16.37         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 9        | 16.37         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 14       | 16.37         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 6        | 16.37         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 16       | 16.37         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 6        | 16.37         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 17       | 16.37         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 15       | 16.37         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 13       | 16.36         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 4        | 16.36         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 19       | 16.36         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 3        | 16.36         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 3        | 16.36         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 3        | 16.36         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 7        | 16.36         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 7        | 16.36         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 9        | 16.36         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 19       | 16.36         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 8        | 16.36         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB2  | 17       | 16.36         |
| (1,3021) | 1:A:12:GLY:H   | 1:A:30:PRO:HB3  | 17       | 16.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2 | 14       | 16.36         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2 | 11       | 16.36         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 19       | 16.36         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 3        | 16.36         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 17       | 16.36         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 17       | 16.36         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2 | 19       | 16.36         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3 | 19       | 16.36         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 13       | 16.36         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H   | 8        | 16.36         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2 | 10       | 16.36         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 9        | 16.36         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 9        | 16.36         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 11       | 16.36         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 6        | 16.36         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 8        | 16.36         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 20       | 16.36         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H   | 2        | 16.36         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 5        | 16.36         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 7        | 16.36         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H   | 4        | 16.36         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2 | 7        | 16.36         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3 | 7        | 16.36         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3 | 10       | 16.36         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H   | 10       | 16.36         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 9        | 16.36         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 9        | 16.36         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2 | 18       | 16.36         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3 | 18       | 16.36         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3 | 14       | 16.36         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 18       | 16.36         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 13       | 16.35         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 13       | 16.35         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 2        | 16.35         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 6        | 16.35         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 6        | 16.35         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 18       | 16.35         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 11       | 16.35         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 11       | 16.35         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 9        | 16.35         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 9        | 16.35         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA  | 11       | 16.35         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 2        | 16.35         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 5        | 16.35         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 12       | 16.35         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 2        | 16.35         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 12       | 16.35         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 16       | 16.35         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 18       | 16.35         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H   | 9        | 16.35         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 7        | 16.35         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 18       | 16.35         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 19       | 16.35         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 8        | 16.35         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 2        | 16.35         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 1        | 16.35         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 3        | 16.35         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2 | 6        | 16.35         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 11       | 16.35         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3 | 2        | 16.34         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 10       | 16.34         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 19       | 16.34         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 13       | 16.34         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 13       | 16.34         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA  | 20       | 16.34         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 10       | 16.34         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H   | 11       | 16.34         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 8        | 16.34         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H   | 6        | 16.34         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H   | 10       | 16.34         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H   | 9        | 16.34         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA  | 2        | 16.34         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 19       | 16.34         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 20       | 16.34         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H   | 16       | 16.34         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H   | 1        | 16.34         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 5        | 16.34         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H   | 10       | 16.34         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 18       | 16.34         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 18       | 16.34         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 16       | 16.34         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H   | 9        | 16.34         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H   | 19       | 16.34         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H   | 4        | 16.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 12       | 16.34         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 12       | 16.34         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 18       | 16.34         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 6        | 16.34         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 19       | 16.34         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 19       | 16.34         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 6        | 16.34         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 17       | 16.33         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 12       | 16.33         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 12       | 16.33         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 12       | 16.33         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 11       | 16.33         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 11       | 16.33         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2  | 10       | 16.33         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 10       | 16.33         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 7        | 16.33         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 7        | 16.33         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 9        | 16.33         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 15       | 16.33         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 18       | 16.33         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 19       | 16.33         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 1        | 16.33         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 13       | 16.33         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA2  | 17       | 16.33         |
| (1,2342) | 1:A:9:PRO:HG2  | 1:A:29:GLY:HA3  | 17       | 16.33         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 20       | 16.33         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 20       | 16.33         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 16       | 16.33         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 16       | 16.33         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 8        | 16.33         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 12       | 16.33         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 8        | 16.33         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 9        | 16.33         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 20       | 16.33         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 8        | 16.33         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 8        | 16.33         |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 8        | 16.33         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 10       | 16.32         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 18       | 16.32         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 1        | 16.32         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 7        | 16.32         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 5        | 16.32         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 13       | 16.32         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 7        | 16.32         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 5        | 16.32         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 5        | 16.32         |
| (1,3020) | 1:A:12:GLY:H   | 1:A:29:GLY:HA3  | 17       | 16.32         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 10       | 16.32         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 12       | 16.32         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 10       | 16.32         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 10       | 16.32         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 5        | 16.32         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA   | 4        | 16.32         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 15       | 16.32         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 20       | 16.32         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 12       | 16.32         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 1        | 16.32         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 10       | 16.32         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 16       | 16.32         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 8        | 16.32         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 3        | 16.32         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 3        | 16.32         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 11       | 16.32         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 9        | 16.31         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 11       | 16.31         |
| (1,766)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HB3  | 16       | 16.31         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 9        | 16.31         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 9        | 16.31         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 15       | 16.31         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 15       | 16.31         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 7        | 16.31         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 12       | 16.31         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 17       | 16.31         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 19       | 16.31         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 19       | 16.31         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 8        | 16.31         |
| (1,2932) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HA   | 16       | 16.31         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 20       | 16.31         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 10       | 16.31         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 10       | 16.31         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 9        | 16.31         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 11       | 16.31         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 17       | 16.31         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 20       | 16.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 7        | 16.31         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 18       | 16.31         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 19       | 16.31         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 8        | 16.31         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 12       | 16.31         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 18       | 16.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 20       | 16.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 20       | 16.31         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 20       | 16.31         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 3        | 16.31         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 17       | 16.31         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 17       | 16.31         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD2  | 20       | 16.31         |
| (1,1296) | 1:A:4:ASN:HD21 | 1:A:30:PRO:HD3  | 20       | 16.31         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 4        | 16.31         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1  | 19       | 16.31         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 2        | 16.31         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 17       | 16.3          |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 17       | 16.3          |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 3        | 16.3          |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 3        | 16.3          |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 5        | 16.3          |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 16       | 16.3          |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 8        | 16.3          |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 8        | 16.3          |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 3        | 16.3          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 16       | 16.3          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 16       | 16.3          |
| (1,3028) | 1:A:12:GLY:H   | 1:A:31:LYS:HB3  | 17       | 16.3          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 13       | 16.3          |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 16       | 16.3          |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 6        | 16.3          |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 8        | 16.3          |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 14       | 16.3          |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 18       | 16.3          |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 19       | 16.3          |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 7        | 16.3          |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 9        | 16.3          |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 5        | 16.3          |
| (1,2531) | 1:A:10:GLY:HA3 | 1:A:17:GLY:H    | 14       | 16.3          |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 4        | 16.3          |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 15       | 16.3          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 13       | 16.3          |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 19       | 16.3          |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 11       | 16.3          |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 1        | 16.3          |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 4        | 16.3          |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 8        | 16.3          |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 8        | 16.3          |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 17       | 16.3          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 14       | 16.3          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 14       | 16.3          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 20       | 16.3          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 20       | 16.3          |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 20       | 16.3          |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 3        | 16.3          |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 12       | 16.3          |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB1  | 2        | 16.3          |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB2  | 2        | 16.3          |
| (1,1049) | 1:A:3:PRO:HD3  | 1:A:34:ALA:HB3  | 2        | 16.3          |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 5        | 16.29         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 5        | 16.29         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 12       | 16.29         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 8        | 16.29         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 8        | 16.29         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 15       | 16.29         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 15       | 16.29         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 10       | 16.29         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 10       | 16.29         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 7        | 16.29         |
| (1,2824) | 1:A:11:TRP:HE3 | 1:A:33:CYS:H    | 16       | 16.29         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 8        | 16.29         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 8        | 16.29         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 9        | 16.29         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 5        | 16.29         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 5        | 16.29         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 15       | 16.29         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 12       | 16.29         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 12       | 16.29         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 12       | 16.29         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 20       | 16.29         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 2        | 16.29         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 5        | 16.29         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 17       | 16.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 9        | 16.29         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 9        | 16.29         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 13       | 16.29         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 13       | 16.29         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 2        | 16.29         |
| (1,1164) | 1:A:4:ASN:HB2  | 1:A:30:PRO:HA   | 20       | 16.29         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 5        | 16.29         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 10       | 16.28         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 10       | 16.28         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 18       | 16.28         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 18       | 16.28         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 2        | 16.28         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 1        | 16.28         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 1        | 16.28         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 1        | 16.28         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 1        | 16.28         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 15       | 16.28         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 15       | 16.28         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 1        | 16.28         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 1        | 16.28         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 14       | 16.28         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 14       | 16.28         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 6        | 16.28         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1  | 10       | 16.28         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 17       | 16.28         |
| (1,2960) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HE1  | 9        | 16.28         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 13       | 16.28         |
| (1,2829) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HA   | 9        | 16.28         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 3        | 16.28         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 4        | 16.28         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 18       | 16.28         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 12       | 16.28         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 10       | 16.28         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 10       | 16.28         |
| (1,2344) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HA   | 17       | 16.28         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 17       | 16.28         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 7        | 16.28         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 16       | 16.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 4        | 16.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 4        | 16.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 4        | 16.28         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 15       | 16.28         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 12       | 16.28         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 12       | 16.28         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 10       | 16.28         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 16       | 16.28         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 16       | 16.28         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 16       | 16.28         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 16       | 16.28         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 10       | 16.28         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 2        | 16.27         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 7        | 16.27         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 2        | 16.27         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 17       | 16.27         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 17       | 16.27         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 17       | 16.27         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 17       | 16.27         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 17       | 16.27         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 5        | 16.27         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 9        | 16.27         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 9        | 16.27         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 3        | 16.27         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 3        | 16.27         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 2        | 16.27         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 14       | 16.27         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 20       | 16.27         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 20       | 16.27         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 2        | 16.27         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 2        | 16.27         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 12       | 16.27         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 9        | 16.27         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 5        | 16.27         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 5        | 16.27         |
| (1,1859) | 1:A:6:GLN:HE21 | 1:A:35:HIS:H    | 20       | 16.27         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 3        | 16.27         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 3        | 16.27         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 11       | 16.27         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 5        | 16.27         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 13       | 16.27         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 17       | 16.27         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 12       | 16.26         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 19       | 16.26         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2  | 1        | 16.26         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 11       | 16.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 11       | 16.26         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 13       | 16.26         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 13       | 16.26         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 14       | 16.26         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 14       | 16.26         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 14       | 16.26         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 14       | 16.26         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 5        | 16.26         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 5        | 16.26         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 17       | 16.26         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 3        | 16.26         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 1        | 16.26         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 1        | 16.26         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 6        | 16.26         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 6        | 16.26         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 13       | 16.26         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 18       | 16.26         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 8        | 16.26         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 9        | 16.26         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 10       | 16.26         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 17       | 16.26         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 17       | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 1        | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 1        | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 15       | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 15       | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 19       | 16.26         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 19       | 16.26         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 20       | 16.26         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 11       | 16.26         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 7        | 16.26         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 5        | 16.26         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 12       | 16.26         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 15       | 16.25         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 10       | 16.25         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 10       | 16.25         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 17       | 16.25         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 3        | 16.25         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 3        | 16.25         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 6        | 16.25         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 8        | 16.25         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 8        | 16.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 16       | 16.25         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 10       | 16.25         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 10       | 16.25         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 10       | 16.25         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 3        | 16.25         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 3        | 16.25         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 20       | 16.25         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 13       | 16.25         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 7        | 16.25         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 16       | 16.25         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 9        | 16.25         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 15       | 16.25         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 10       | 16.25         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 11       | 16.25         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 3        | 16.25         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 20       | 16.25         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 2        | 16.25         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 1        | 16.25         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 1        | 16.25         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 12       | 16.25         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 12       | 16.25         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 15       | 16.25         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 7        | 16.25         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 18       | 16.25         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 18       | 16.25         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 20       | 16.25         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 20       | 16.25         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 16       | 16.25         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 18       | 16.25         |
| (1,1605) | 1:A:6:GLN:HB2  | 1:A:30:PRO:HA   | 19       | 16.25         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 12       | 16.25         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 16       | 16.25         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 16       | 16.25         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 10       | 16.25         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 11       | 16.25         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 8        | 16.24         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 10       | 16.24         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 12       | 16.24         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 12       | 16.24         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 12       | 16.24         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 4        | 16.24         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 4        | 16.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 9        | 16.24         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 4        | 16.24         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 4        | 16.24         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 3        | 16.24         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 3        | 16.24         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 4        | 16.24         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 4        | 16.24         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 19       | 16.24         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 12       | 16.24         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 16       | 16.24         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 16       | 16.24         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 10       | 16.24         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 10       | 16.24         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 13       | 16.24         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 13       | 16.24         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 10       | 16.24         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 10       | 16.24         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 3        | 16.24         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 3        | 16.24         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 19       | 16.23         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 19       | 16.23         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 20       | 16.23         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 20       | 16.23         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 7        | 16.23         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 11       | 16.23         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 15       | 16.23         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 11       | 16.23         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 15       | 16.23         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 5        | 16.23         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 5        | 16.23         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 5        | 16.23         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 15       | 16.23         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 15       | 16.23         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 12       | 16.23         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 12       | 16.23         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 12       | 16.23         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 12       | 16.23         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 11       | 16.23         |
| (1,2286) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HB3  | 17       | 16.23         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 6        | 16.23         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 20       | 16.23         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 4        | 16.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 15       | 16.23         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 2        | 16.23         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 10       | 16.23         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 15       | 16.23         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG2  | 11       | 16.23         |
| (1,1672) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HG3  | 11       | 16.23         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 3        | 16.23         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2  | 1        | 16.23         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 13       | 16.23         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 13       | 16.23         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 1        | 16.22         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 1        | 16.22         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 8        | 16.22         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 8        | 16.22         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 13       | 16.22         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 11       | 16.22         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 13       | 16.22         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 13       | 16.22         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 13       | 16.22         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 15       | 16.22         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 2        | 16.22         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 8        | 16.22         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 8        | 16.22         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 16       | 16.22         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 16       | 16.22         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 16       | 16.22         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 19       | 16.22         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 19       | 16.22         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 10       | 16.22         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 10       | 16.22         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 2        | 16.22         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 6        | 16.22         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 11       | 16.22         |
| (1,1848) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HB2  | 6        | 16.22         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 2        | 16.22         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 15       | 16.22         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 15       | 16.22         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 18       | 16.22         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 2        | 16.22         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 13       | 16.22         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2  | 17       | 16.22         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 6        | 16.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 20       | 16.21         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 1        | 16.21         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 17       | 16.21         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 3        | 16.21         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 7        | 16.21         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 7        | 16.21         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 7        | 16.21         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 16       | 16.21         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 16       | 16.21         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 5        | 16.21         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 13       | 16.21         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 15       | 16.21         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 10       | 16.21         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 1        | 16.21         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 10       | 16.21         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 10       | 16.21         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 1        | 16.21         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 1        | 16.21         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 6        | 16.21         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 10       | 16.21         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 10       | 16.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 19       | 16.2          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 19       | 16.2          |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 19       | 16.2          |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 6        | 16.2          |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 15       | 16.2          |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 15       | 16.2          |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 4        | 16.2          |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 4        | 16.2          |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 7        | 16.2          |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 20       | 16.2          |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 20       | 16.2          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 13       | 16.2          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 13       | 16.2          |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 6        | 16.2          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 16       | 16.2          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 16       | 16.2          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 19       | 16.2          |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 19       | 16.2          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 1        | 16.2          |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 7        | 16.2          |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 20       | 16.2          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 1        | 16.2          |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 11       | 16.2          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 7        | 16.2          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 7        | 16.2          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 7        | 16.2          |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2 | 14       | 16.2          |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3 | 14       | 16.2          |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA  | 10       | 16.2          |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 1        | 16.2          |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 8        | 16.2          |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H   | 2        | 16.2          |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 13       | 16.2          |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 1        | 16.2          |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 1        | 16.2          |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3 | 7        | 16.2          |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 1        | 16.2          |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2 | 15       | 16.19         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3 | 15       | 16.19         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 14       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 16       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 16       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 16       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 16       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 16       | 16.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 16       | 16.19         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H   | 9        | 16.19         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 17       | 16.19         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2 | 6        | 16.19         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3 | 6        | 16.19         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 11       | 16.19         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1 | 19       | 16.19         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2 | 19       | 16.19         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2 | 18       | 16.19         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3 | 18       | 16.19         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 12       | 16.19         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2 | 15       | 16.19         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H   | 12       | 16.19         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H   | 2        | 16.19         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H   | 18       | 16.19         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H   | 19       | 16.19         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA2 | 17       | 16.19         |
| (1,2876) | 1:A:11:TRP:HE1 | 1:A:29:GLY:HA3 | 17       | 16.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 7        | 16.19         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 12       | 16.19         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 3        | 16.19         |
| (1,2288) | 1:A:9:PRO:HB3  | 1:A:34:ALA:HA   | 17       | 16.19         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 6        | 16.19         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 6        | 16.19         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 8        | 16.19         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 17       | 16.19         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 2        | 16.19         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 16       | 16.19         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 2        | 16.18         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 18       | 16.18         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 18       | 16.18         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 18       | 16.18         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 20       | 16.18         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB2  | 20       | 16.18         |
| (1,2977) | 1:A:11:TRP:HH2 | 1:A:28:SER:HB3  | 20       | 16.18         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 9        | 16.18         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 4        | 16.18         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 15       | 16.18         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 16       | 16.18         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 15       | 16.18         |
| (1,2763) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HA   | 17       | 16.18         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 20       | 16.18         |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 4        | 16.18         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 1        | 16.18         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 13       | 16.18         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 11       | 16.18         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 3        | 16.18         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 5        | 16.18         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 2        | 16.18         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 10       | 16.18         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 7        | 16.18         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 1        | 16.18         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 6        | 16.18         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 6        | 16.18         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 15       | 16.18         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 8        | 16.17         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 17       | 16.17         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 17       | 16.17         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 9        | 16.17         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 9        | 16.17         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 11       | 16.17         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 11       | 16.17         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 11       | 16.17         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 19       | 16.17         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 1        | 16.17         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 11       | 16.17         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 12       | 16.17         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 12       | 16.17         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 5        | 16.17         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 7        | 16.17         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 6        | 16.17         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 6        | 16.17         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 15       | 16.17         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 15       | 16.17         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 20       | 16.17         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 11       | 16.17         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 14       | 16.17         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 14       | 16.17         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 14       | 16.17         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 7        | 16.17         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 10       | 16.17         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 20       | 16.16         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 20       | 16.16         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2  | 6        | 16.16         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 20       | 16.16         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 20       | 16.16         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 8        | 16.16         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 19       | 16.16         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 8        | 16.16         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 13       | 16.16         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 18       | 16.16         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 12       | 16.16         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 18       | 16.16         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 19       | 16.16         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 19       | 16.16         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 11       | 16.16         |
| (1,2764) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HB2  | 17       | 16.16         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 14       | 16.16         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 8        | 16.16         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 17       | 16.16         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 4        | 16.16         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 13       | 16.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 6        | 16.16         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 14       | 16.16         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 3        | 16.16         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 6        | 16.16         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 5        | 16.16         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 5        | 16.16         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 8        | 16.16         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 12       | 16.16         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 5        | 16.15         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 5        | 16.15         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 7        | 16.15         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 7        | 16.15         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 12       | 16.15         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 12       | 16.15         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 4        | 16.15         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 4        | 16.15         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 13       | 16.15         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 13       | 16.15         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 15       | 16.15         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 15       | 16.15         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 11       | 16.15         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 11       | 16.15         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 9        | 16.15         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 9        | 16.15         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 10       | 16.15         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 10       | 16.15         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 16       | 16.15         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 19       | 16.15         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 18       | 16.15         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 1        | 16.15         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 15       | 16.15         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 16       | 16.15         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE2  | 18       | 16.15         |
| (1,2930) | 1:A:11:TRP:HZ3 | 1:A:31:LYS:HE3  | 18       | 16.15         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 10       | 16.15         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 15       | 16.15         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 15       | 16.15         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 15       | 16.15         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 1        | 16.15         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 3        | 16.15         |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H    | 4        | 16.15         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 17       | 16.15         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 17       | 16.15         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 5        | 16.15         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 7        | 16.15         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 10       | 16.15         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 15       | 16.15         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 15       | 16.15         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 1        | 16.15         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 8        | 16.15         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 13       | 16.14         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 13       | 16.14         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 13       | 16.14         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 20       | 16.14         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 1        | 16.14         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 1        | 16.14         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 8        | 16.14         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 8        | 16.14         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 4        | 16.14         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 18       | 16.14         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 18       | 16.14         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 16       | 16.14         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 18       | 16.14         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 19       | 16.14         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 19       | 16.14         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 12       | 16.14         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 20       | 16.14         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 7        | 16.14         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 1        | 16.14         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 14       | 16.14         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 15       | 16.14         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 18       | 16.14         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 18       | 16.14         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 3        | 16.14         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 3        | 16.14         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 3        | 16.14         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 3        | 16.14         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 12       | 16.14         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 12       | 16.14         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 12       | 16.14         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 8        | 16.14         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 9        | 16.14         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 16       | 16.14         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 10       | 16.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 6        | 16.14         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 11       | 16.14         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 11       | 16.14         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 17       | 16.14         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 14       | 16.13         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 14       | 16.13         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 2        | 16.13         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 17       | 16.13         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 17       | 16.13         |
| (1,532)  | 1:A:1:SER:HA   | 1:A:31:LYS:HB2  | 10       | 16.13         |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2  | 8        | 16.13         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 1        | 16.13         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 1        | 16.13         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 3        | 16.13         |
| (1,3125) | 1:A:13:GLY:H   | 1:A:30:PRO:HD3  | 19       | 16.13         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 9        | 16.13         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 15       | 16.13         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 15       | 16.13         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 1        | 16.13         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 13       | 16.13         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 14       | 16.13         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 14       | 16.13         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 10       | 16.13         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 3        | 16.13         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 18       | 16.13         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 17       | 16.13         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 17       | 16.13         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 15       | 16.13         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 15       | 16.13         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 5        | 16.13         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 11       | 16.13         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 5        | 16.12         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 5        | 16.12         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 18       | 16.12         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 18       | 16.12         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 15       | 16.12         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 19       | 16.12         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 8        | 16.12         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 20       | 16.12         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 20       | 16.12         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 2        | 16.12         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 2        | 16.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 2        | 16.12         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 20       | 16.12         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 13       | 16.12         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 12       | 16.12         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 16       | 16.12         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 6        | 16.12         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 19       | 16.12         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 20       | 16.12         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 10       | 16.12         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 10       | 16.12         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 10       | 16.12         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 10       | 16.12         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 18       | 16.12         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 11       | 16.12         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 11       | 16.12         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 11       | 16.12         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 19       | 16.11         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 12       | 16.11         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 12       | 16.11         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 5        | 16.11         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 11       | 16.11         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 11       | 16.11         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 12       | 16.11         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 18       | 16.11         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 19       | 16.11         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 15       | 16.11         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 15       | 16.11         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 8        | 16.11         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 13       | 16.11         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 11       | 16.11         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 17       | 16.11         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 6        | 16.11         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 7        | 16.11         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 10       | 16.11         |
| (1,1312) | 1:A:4:ASN:HD21 | 1:A:35:HIS:HB2  | 20       | 16.11         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 8        | 16.11         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 14       | 16.11         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 10       | 16.11         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 9        | 16.1          |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 9        | 16.1          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 8        | 16.1          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 8        | 16.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 6        | 16.1          |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 19       | 16.1          |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 14       | 16.1          |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 14       | 16.1          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 8        | 16.1          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 16       | 16.1          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 18       | 16.1          |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 19       | 16.1          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 12       | 16.1          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 12       | 16.1          |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 2        | 16.1          |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 4        | 16.1          |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 15       | 16.1          |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 11       | 16.1          |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 14       | 16.1          |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 17       | 16.1          |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 10       | 16.1          |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 9        | 16.1          |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 13       | 16.1          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 5        | 16.1          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 5        | 16.1          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 6        | 16.1          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 6        | 16.1          |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3  | 19       | 16.1          |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 6        | 16.1          |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 17       | 16.1          |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 17       | 16.1          |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 7        | 16.09         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2  | 20       | 16.09         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3  | 20       | 16.09         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1  | 4        | 16.09         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 17       | 16.09         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 4        | 16.09         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 4        | 16.09         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 17       | 16.09         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 7        | 16.09         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2  | 20       | 16.09         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 9        | 16.09         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 16       | 16.09         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 2        | 16.09         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 11       | 16.09         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 7        | 16.09         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 9        | 16.09         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 16       | 16.09         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE  | 1        | 16.09         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H   | 16       | 16.09         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 12       | 16.09         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 12       | 16.09         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2 | 3        | 16.09         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 9        | 16.09         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 9        | 16.09         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 18       | 16.09         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 19       | 16.09         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H   | 20       | 16.09         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 6        | 16.09         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 18       | 16.09         |
| (1,1293) | 1:A:4:ASN:HD21 | 1:A:29:GLY:HA3 | 20       | 16.09         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H   | 2        | 16.09         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2 | 7        | 16.08         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3 | 7        | 16.08         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 2        | 16.08         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 2        | 16.08         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 5        | 16.08         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 5        | 16.08         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 4        | 16.08         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 4        | 16.08         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2 | 17       | 16.08         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3 | 17       | 16.08         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2 | 7        | 16.08         |
| (1,2970) | 1:A:11:TRP:HH2 | 1:A:19:CYS:HB2 | 9        | 16.08         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 6        | 16.08         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3 | 7        | 16.08         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 8        | 16.08         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 8        | 16.08         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA  | 11       | 16.08         |
| (1,2284) | 1:A:9:PRO:HB3  | 1:A:33:CYS:H   | 17       | 16.08         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 11       | 16.08         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 11       | 16.08         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 16       | 16.08         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 16       | 16.08         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H   | 4        | 16.08         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H   | 13       | 16.08         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2 | 4        | 16.08         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1 | 9        | 16.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 9        | 16.08         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 9        | 16.08         |
| (1,1840) | 1:A:6:GLN:HE21 | 1:A:29:GLY:H    | 16       | 16.08         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 14       | 16.08         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 4        | 16.08         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 4        | 16.08         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 19       | 16.08         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 14       | 16.08         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 1        | 16.08         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 12       | 16.08         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 2        | 16.08         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD2  | 8        | 16.08         |
| (1,1041) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HD3  | 8        | 16.08         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 6        | 16.07         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 5        | 16.07         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 8        | 16.07         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 17       | 16.07         |
| (1,2886) | 1:A:11:TRP:HE1 | 1:A:32:TYR:H    | 17       | 16.07         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 5        | 16.07         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 14       | 16.07         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 14       | 16.07         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 13       | 16.07         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 6        | 16.07         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 8        | 16.07         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 13       | 16.07         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 8        | 16.07         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 18       | 16.07         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 1        | 16.07         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 20       | 16.07         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 20       | 16.07         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1  | 18       | 16.07         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 20       | 16.07         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 7        | 16.07         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 7        | 16.07         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 6        | 16.07         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 6        | 16.07         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 6        | 16.07         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 14       | 16.07         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 14       | 16.07         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 8        | 16.07         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 8        | 16.07         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 8        | 16.07         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 7        | 16.07         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 11       | 16.07         |
| (1,1299) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB2  | 15       | 16.07         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 17       | 16.07         |
| (1,746)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:H    | 20       | 16.06         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 17       | 16.06         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 17       | 16.06         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 17       | 16.06         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 15       | 16.06         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 19       | 16.06         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 12       | 16.06         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG2  | 20       | 16.06         |
| (1,2630) | 1:A:11:TRP:HA  | 1:A:31:LYS:HG3  | 20       | 16.06         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 15       | 16.06         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 16       | 16.06         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 18       | 16.06         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 19       | 16.06         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 4        | 16.06         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 2        | 16.06         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 2        | 16.06         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 11       | 16.05         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 11       | 16.05         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 4        | 16.05         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 4        | 16.05         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 3        | 16.05         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 3        | 16.05         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 4        | 16.05         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 4        | 16.05         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 2        | 16.05         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 15       | 16.05         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 13       | 16.05         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 13       | 16.05         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 16       | 16.05         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 3        | 16.05         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 3        | 16.05         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 3        | 16.05         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 1        | 16.05         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 20       | 16.05         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 19       | 16.05         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 19       | 16.05         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 10       | 16.05         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 16       | 16.05         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 16       | 16.05         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 16       | 16.05         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 3        | 16.05         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 1        | 16.05         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 8        | 16.05         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 7        | 16.05         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 13       | 16.05         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 13       | 16.05         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 14       | 16.05         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 15       | 16.05         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 17       | 16.05         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 5        | 16.05         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 14       | 16.04         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 6        | 16.04         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 6        | 16.04         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 20       | 16.04         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 9        | 16.04         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 9        | 16.04         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 18       | 16.04         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 18       | 16.04         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 7        | 16.04         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 7        | 16.04         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 18       | 16.04         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 18       | 16.04         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 9        | 16.04         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 9        | 16.04         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 9        | 16.04         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 13       | 16.04         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 1        | 16.04         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 14       | 16.04         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 13       | 16.04         |
| (1,2094) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HB2  | 17       | 16.04         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 5        | 16.04         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 11       | 16.04         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 11       | 16.04         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 11       | 16.04         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 20       | 16.04         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 6        | 16.04         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 7        | 16.04         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 5        | 16.04         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 3        | 16.04         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 5        | 16.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 5        | 16.03         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 12       | 16.03         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 12       | 16.03         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 8        | 16.03         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 12       | 16.03         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 12       | 16.03         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 16       | 16.03         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 16       | 16.03         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 2        | 16.03         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 11       | 16.03         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 2        | 16.03         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 4        | 16.03         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 5        | 16.03         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 6        | 16.03         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 13       | 16.03         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 13       | 16.03         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 14       | 16.03         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 1        | 16.03         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 1        | 16.03         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 1        | 16.03         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 6        | 16.03         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 6        | 16.03         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 14       | 16.03         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 16       | 16.03         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 7        | 16.03         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 13       | 16.02         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 13       | 16.02         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 3        | 16.02         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 3        | 16.02         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 3        | 16.02         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 6        | 16.02         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 4        | 16.02         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 4        | 16.02         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 13       | 16.02         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 13       | 16.02         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 4        | 16.02         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 10       | 16.02         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 13       | 16.02         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 13       | 16.02         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 13       | 16.02         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 10       | 16.02         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 12       | 16.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 2        | 16.02         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 1        | 16.02         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 1        | 16.02         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 3        | 16.02         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 6        | 16.02         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 9        | 16.02         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 9        | 16.02         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 19       | 16.01         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 19       | 16.01         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 6        | 16.01         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 6        | 16.01         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 11       | 16.01         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 3        | 16.01         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 1        | 16.01         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 2        | 16.01         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 3        | 16.01         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 8        | 16.01         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 7        | 16.01         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 12       | 16.01         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 9        | 16.01         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 2        | 16.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 5        | 16.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 5        | 16.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 5        | 16.01         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 20       | 16.01         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 3        | 16.01         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 12       | 16.01         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 11       | 16.01         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 9        | 16.0          |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 9        | 16.0          |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 4        | 16.0          |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 10       | 16.0          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 1        | 16.0          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 1        | 16.0          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 14       | 16.0          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 14       | 16.0          |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2  | 12       | 16.0          |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 8        | 16.0          |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 20       | 16.0          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 15       | 16.0          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 15       | 16.0          |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 12       | 16.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 20       | 16.0          |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 2        | 16.0          |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 13       | 16.0          |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 19       | 16.0          |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 7        | 16.0          |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 9        | 16.0          |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 19       | 16.0          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 10       | 16.0          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 10       | 16.0          |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 8        | 16.0          |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 18       | 16.0          |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 20       | 16.0          |
| (1,2352) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HB2  | 17       | 16.0          |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 2        | 16.0          |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 1        | 16.0          |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 11       | 16.0          |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 12       | 16.0          |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 5        | 16.0          |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 4        | 16.0          |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 20       | 16.0          |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 16       | 16.0          |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 15       | 16.0          |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 13       | 15.99         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 13       | 15.99         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 19       | 15.99         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 19       | 15.99         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 16       | 15.99         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 3        | 15.99         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 8        | 15.99         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 8        | 15.99         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 13       | 15.99         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 13       | 15.99         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 13       | 15.99         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 13       | 15.99         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 14       | 15.99         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 16       | 15.99         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 17       | 15.99         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 20       | 15.99         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 10       | 15.99         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 19       | 15.99         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 14       | 15.99         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 14       | 15.99         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 14       | 15.99         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 9        | 15.99         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 4        | 15.99         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 13       | 15.99         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 5        | 15.99         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 3        | 15.99         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 11       | 15.99         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 11       | 15.99         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 3        | 15.98         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 14       | 15.98         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 14       | 15.98         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 6        | 15.98         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 6        | 15.98         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 17       | 15.98         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 11       | 15.98         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 18       | 15.98         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 14       | 15.98         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 13       | 15.98         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 13       | 15.98         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 2        | 15.98         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 16       | 15.98         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H    | 4        | 15.98         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 6        | 15.98         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 3        | 15.98         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 3        | 15.98         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 10       | 15.98         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 10       | 15.98         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 17       | 15.98         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 12       | 15.98         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 12       | 15.98         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 8        | 15.98         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 13       | 15.98         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 14       | 15.98         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 8        | 15.98         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 13       | 15.98         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 14       | 15.98         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 1        | 15.98         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 16       | 15.98         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 9        | 15.98         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 9        | 15.98         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 6        | 15.97         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 6        | 15.97         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 17       | 15.97         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 15       | 15.97         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 15       | 15.97         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 12       | 15.97         |
| (1,2948) | 1:A:11:TRP:HZ2 | 1:A:28:SER:H    | 17       | 15.97         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 15       | 15.97         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 15       | 15.97         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 15       | 15.97         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 9        | 15.97         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 16       | 15.97         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 19       | 15.97         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 7        | 15.97         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 20       | 15.97         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 13       | 15.97         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 15       | 15.97         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 10       | 15.97         |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1  | 1        | 15.97         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 20       | 15.97         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 20       | 15.97         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 20       | 15.97         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 2        | 15.97         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 3        | 15.97         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 3        | 15.97         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 6        | 15.97         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 6        | 15.97         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 18       | 15.97         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 14       | 15.97         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 9        | 15.97         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 9        | 15.96         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 9        | 15.96         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 15.96         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 16       | 15.96         |
| (1,659)  | 1:A:2:GLY:H    | 1:A:31:LYS:HB2  | 17       | 15.96         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 10       | 15.96         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 10       | 15.96         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 16       | 15.96         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 16       | 15.96         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 11       | 15.96         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 12       | 15.96         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 12       | 15.96         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 7        | 15.96         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 7        | 15.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 8        | 15.96         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 20       | 15.96         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 20       | 15.96         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 19       | 15.96         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 10       | 15.96         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 1        | 15.96         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 9        | 15.96         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 16       | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 7        | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 7        | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 7        | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 16       | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 16       | 15.96         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 16       | 15.96         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 3        | 15.96         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 17       | 15.96         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 16       | 15.96         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 17       | 15.96         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 17       | 15.96         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 18       | 15.96         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 2        | 15.96         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 18       | 15.95         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 18       | 15.95         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 4        | 15.95         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 4        | 15.95         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 14       | 15.95         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 14       | 15.95         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 3        | 15.95         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 3        | 15.95         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 1        | 15.95         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 11       | 15.95         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 11       | 15.95         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 13       | 15.95         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 13       | 15.95         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 2        | 15.95         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 2        | 15.95         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 5        | 15.95         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 5        | 15.95         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 7        | 15.95         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 11       | 15.95         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 11       | 15.95         |
| (1,2845) | 1:A:11:TRP:HE1 | 1:A:17:GLY:H    | 14       | 15.95         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 2        | 15.95         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 2        | 15.95         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 2        | 15.95         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 16       | 15.95         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 7        | 15.95         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 13       | 15.95         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 11       | 15.95         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 10       | 15.95         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 18       | 15.95         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 18       | 15.95         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 18       | 15.95         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 3        | 15.95         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 5        | 15.95         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 11       | 15.95         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 10       | 15.95         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 11       | 15.95         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 2        | 15.94         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 2        | 15.94         |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1  | 15       | 15.94         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 4        | 15.94         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 19       | 15.94         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 19       | 15.94         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 4        | 15.94         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 4        | 15.94         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 7        | 15.94         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 7        | 15.94         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 7        | 15.94         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 18       | 15.94         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 19       | 15.94         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 7        | 15.94         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 19       | 15.94         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 19       | 15.94         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 19       | 15.94         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 12       | 15.94         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 17       | 15.94         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 10       | 15.94         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 10       | 15.94         |
| (1,1370) | 1:A:4:ASN:HD22 | 1:A:29:GLY:H    | 19       | 15.94         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 19       | 15.94         |
| (1,1242) | 1:A:4:ASN:HB3  | 1:A:34:ALA:HA   | 7        | 15.94         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 13       | 15.94         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 17       | 15.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 17       | 15.94         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 17       | 15.94         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 18       | 15.93         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 4        | 15.93         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 4        | 15.93         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 18       | 15.93         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 7        | 15.93         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 7        | 15.93         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 15       | 15.93         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 3        | 15.93         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 3        | 15.93         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 4        | 15.93         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 4        | 15.93         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 1        | 15.93         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 1        | 15.93         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 1        | 15.93         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 9        | 15.93         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 18       | 15.93         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H    | 16       | 15.93         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 3        | 15.93         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 3        | 15.93         |
| (1,2664) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HA   | 17       | 15.93         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 3        | 15.93         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 12       | 15.93         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 7        | 15.93         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 7        | 15.93         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 3        | 15.93         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 4        | 15.93         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 5        | 15.93         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 18       | 15.93         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 19       | 15.93         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 5        | 15.93         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 16       | 15.93         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 20       | 15.93         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 3        | 15.93         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 20       | 15.93         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 20       | 15.93         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 6        | 15.93         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 15       | 15.93         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 15       | 15.93         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 15       | 15.93         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 12       | 15.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 4        | 15.93         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 12       | 15.93         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 12       | 15.93         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 7        | 15.93         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 10       | 15.92         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 10       | 15.92         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 16       | 15.92         |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H    | 19       | 15.92         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 3        | 15.92         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 3        | 15.92         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 3        | 15.92         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 8        | 15.92         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 8        | 15.92         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 12       | 15.92         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 12       | 15.92         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 4        | 15.92         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 13       | 15.92         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 20       | 15.92         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 3        | 15.92         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 2        | 15.92         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 2        | 15.92         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 13       | 15.92         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 13       | 15.92         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 19       | 15.92         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 3        | 15.92         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 5        | 15.92         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 6        | 15.92         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 17       | 15.92         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 4        | 15.92         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 5        | 15.92         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 16       | 15.92         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 6        | 15.92         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 20       | 15.92         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 18       | 15.92         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 4        | 15.92         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 4        | 15.92         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 4        | 15.92         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 19       | 15.92         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 10       | 15.92         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 10       | 15.92         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 2        | 15.91         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 2        | 15.91         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 7        | 15.91         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 7        | 15.91         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 6        | 15.91         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 6        | 15.91         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 6        | 15.91         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 6        | 15.91         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 12       | 15.91         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 5        | 15.91         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 1        | 15.91         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 10       | 15.91         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 10       | 15.91         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 9        | 15.91         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 9        | 15.91         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 9        | 15.91         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 7        | 15.91         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 18       | 15.91         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 2        | 15.91         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 14       | 15.91         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 8        | 15.91         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 8        | 15.91         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 14       | 15.91         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 11       | 15.91         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 15       | 15.91         |
| (1,2204) | 1:A:9:PRO:HB2  | 1:A:16:GLY:H    | 14       | 15.91         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 7        | 15.91         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 7        | 15.91         |
| (1,1902) | 1:A:6:GLN:HE22 | 1:A:29:GLY:H    | 19       | 15.91         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 4        | 15.91         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 14       | 15.91         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 6        | 15.91         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 19       | 15.91         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 11       | 15.91         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 8        | 15.91         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 14       | 15.91         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 14       | 15.91         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 16       | 15.91         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 10       | 15.9          |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 10       | 15.9          |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 10       | 15.9          |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 14       | 15.9          |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 14       | 15.9          |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 4        | 15.9          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 4        | 15.9          |
| (1,815)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:H   | 20       | 15.9          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 1        | 15.9          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 1        | 15.9          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 1        | 15.9          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 2        | 15.9          |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1 | 14       | 15.9          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2 | 8        | 15.9          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3 | 8        | 15.9          |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 5        | 15.9          |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 6        | 15.9          |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 15       | 15.9          |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 18       | 15.9          |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 18       | 15.9          |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2 | 11       | 15.9          |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 14       | 15.9          |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 3        | 15.9          |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 5        | 15.9          |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 1        | 15.9          |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H   | 11       | 15.9          |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2 | 7        | 15.9          |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 13       | 15.9          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 5        | 15.9          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 5        | 15.9          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 14       | 15.9          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 14       | 15.9          |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 5        | 15.9          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1 | 13       | 15.9          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2 | 13       | 15.9          |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3 | 13       | 15.9          |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 13       | 15.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2 | 6        | 15.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3 | 6        | 15.9          |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3 | 4        | 15.9          |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 5        | 15.89         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 5        | 15.89         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 13       | 15.89         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 13       | 15.89         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 2        | 15.89         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 2        | 15.89         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 11       | 15.89         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2 | 7        | 15.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 7        | 15.89         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 4        | 15.89         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 18       | 15.89         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 18       | 15.89         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 5        | 15.89         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 6        | 15.89         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 6        | 15.89         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 6        | 15.89         |
| (1,2830) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HB2  | 1        | 15.89         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG2  | 20       | 15.89         |
| (1,2818) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HG3  | 20       | 15.89         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 11       | 15.89         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 11       | 15.89         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 1        | 15.89         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 2        | 15.89         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 4        | 15.89         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 13       | 15.89         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 9        | 15.89         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 14       | 15.89         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 5        | 15.89         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 8        | 15.89         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 2        | 15.89         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 10       | 15.89         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 10       | 15.89         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 12       | 15.89         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 18       | 15.89         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 19       | 15.89         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 18       | 15.89         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 18       | 15.89         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 11       | 15.88         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 11       | 15.88         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 17       | 15.88         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 17       | 15.88         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 20       | 15.88         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 2        | 15.88         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 4        | 15.88         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 10       | 15.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 2        | 15.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 2        | 15.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 2        | 15.88         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 14       | 15.88         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 14       | 15.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 14       | 15.88         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 2        | 15.88         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 2        | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 5        | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 5        | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 5        | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 18       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 18       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 18       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 19       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 19       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 19       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 20       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 20       | 15.88         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 20       | 15.88         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 11       | 15.88         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 7        | 15.88         |
| (1,2376) | 1:A:9:PRO:HG3  | 1:A:17:GLY:H    | 6        | 15.88         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 6        | 15.88         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 13       | 15.88         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 5        | 15.88         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 5        | 15.88         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 2        | 15.88         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 2        | 15.88         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 2        | 15.88         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 9        | 15.88         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 20       | 15.88         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 20       | 15.88         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 2        | 15.88         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 5        | 15.88         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 17       | 15.87         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 17       | 15.87         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 17       | 15.87         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 17       | 15.87         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 4        | 15.87         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 4        | 15.87         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 16       | 15.87         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 10       | 15.87         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 10       | 15.87         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 15       | 15.87         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 8        | 15.87         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 10       | 15.87         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 9        | 15.87         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 9        | 15.87         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 1        | 15.87         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 1        | 15.87         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 15       | 15.87         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB1  | 2        | 15.87         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB2  | 2        | 15.87         |
| (1,1390) | 1:A:4:ASN:HD22 | 1:A:34:ALA:HB3  | 2        | 15.87         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 2        | 15.87         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 1        | 15.87         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 1        | 15.87         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 8        | 15.86         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 8        | 15.86         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 12       | 15.86         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 12       | 15.86         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 9        | 15.86         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 9        | 15.86         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 3        | 15.86         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 3        | 15.86         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 15       | 15.86         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 4        | 15.86         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 4        | 15.86         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 4        | 15.86         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 6        | 15.86         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 15       | 15.86         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 15       | 15.86         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 5        | 15.86         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 5        | 15.86         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 5        | 15.86         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 10       | 15.86         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 10       | 15.86         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H    | 20       | 15.86         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 16       | 15.86         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 2        | 15.86         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 1        | 15.86         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 15       | 15.86         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 7        | 15.86         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 9        | 15.86         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 9        | 15.86         |
| (1,1380) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HB3  | 18       | 15.86         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 8        | 15.86         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 12       | 15.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 12       | 15.85         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 13       | 15.85         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 1        | 15.85         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 1        | 15.85         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 2        | 15.85         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 2        | 15.85         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 11       | 15.85         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 11       | 15.85         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 12       | 15.85         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 12       | 15.85         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 7        | 15.85         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 7        | 15.85         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 7        | 15.85         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 7        | 15.85         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 7        | 15.85         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 7        | 15.85         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 1        | 15.85         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 6        | 15.85         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 6        | 15.85         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 6        | 15.85         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 6        | 15.85         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 10       | 15.85         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 10       | 15.85         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 8        | 15.85         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 4        | 15.85         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 17       | 15.85         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 17       | 15.85         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 3        | 15.85         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 3        | 15.85         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 8        | 15.85         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 8        | 15.85         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 6        | 15.85         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 6        | 15.85         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 2        | 15.85         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 3        | 15.85         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 3        | 15.85         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 3        | 15.85         |
| (1,2889) | 1:A:11:TRP:HE1 | 1:A:33:CYS:H    | 17       | 15.85         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 1        | 15.85         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2  | 3        | 15.85         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 11       | 15.85         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 11       | 15.85         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 11       | 15.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 19       | 15.85         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 19       | 15.85         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 7        | 15.85         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 4        | 15.85         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 4        | 15.85         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 3        | 15.85         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 3        | 15.85         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 20       | 15.85         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3 | 3        | 15.85         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 16       | 15.85         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 18       | 15.85         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 13       | 15.85         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1 | 14       | 15.85         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2 | 14       | 15.85         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3 | 14       | 15.85         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 5        | 15.84         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 5        | 15.84         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 2        | 15.84         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 11       | 15.84         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 11       | 15.84         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 11       | 15.84         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 13       | 15.84         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1 | 13       | 15.84         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2 | 13       | 15.84         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3 | 18       | 15.84         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3 | 18       | 15.84         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 14       | 15.84         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 18       | 15.84         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 12       | 15.84         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H   | 18       | 15.84         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H   | 19       | 15.84         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 15       | 15.84         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 7        | 15.84         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H   | 12       | 15.84         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H   | 13       | 15.84         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 9        | 15.84         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 2        | 15.84         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 20       | 15.84         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 13       | 15.84         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 17       | 15.84         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 9        | 15.83         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 9        | 15.83         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 15       | 15.83         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 15       | 15.83         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 6        | 15.83         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 6        | 15.83         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 9        | 15.83         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 9        | 15.83         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 9        | 15.83         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2 | 12       | 15.83         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 3        | 15.83         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 14       | 15.83         |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1 | 15       | 15.83         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 2        | 15.83         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2 | 17       | 15.83         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3 | 17       | 15.83         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 14       | 15.83         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 14       | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 5        | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 5        | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 10       | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 10       | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 13       | 15.83         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 13       | 15.83         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 4        | 15.83         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 4        | 15.83         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 4        | 15.83         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3 | 20       | 15.83         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 9        | 15.83         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 9        | 15.83         |
| (1,2757) | 1:A:11:TRP:HD1 | 1:A:29:GLY:H   | 17       | 15.83         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 9        | 15.83         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 9        | 15.83         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 9        | 15.83         |
| (1,2634) | 1:A:11:TRP:HA  | 1:A:33:CYS:H   | 16       | 15.83         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 10       | 15.83         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 14       | 15.83         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 8        | 15.83         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 2        | 15.83         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 5        | 15.83         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 10       | 15.83         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 3        | 15.83         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 10       | 15.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 13       | 15.83         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 2        | 15.83         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 2        | 15.83         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 14       | 15.83         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 8        | 15.83         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 9        | 15.83         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 11       | 15.83         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 3        | 15.83         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 7        | 15.83         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 4        | 15.83         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 4        | 15.82         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 4        | 15.82         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 9        | 15.82         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 9        | 15.82         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 4        | 15.82         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 5        | 15.82         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 19       | 15.82         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 13       | 15.82         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 12       | 15.82         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 12       | 15.82         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 8        | 15.82         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 8        | 15.82         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 18       | 15.82         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 18       | 15.82         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 3        | 15.82         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 3        | 15.82         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 14       | 15.82         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 6        | 15.82         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 8        | 15.82         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 8        | 15.82         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 4        | 15.82         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 12       | 15.82         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 12       | 15.82         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 5        | 15.82         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 17       | 15.82         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 17       | 15.82         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 6        | 15.82         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 5        | 15.82         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 5        | 15.82         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 17       | 15.82         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 16       | 15.82         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 5        | 15.81         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 5        | 15.81         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 10       | 15.81         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2 | 20       | 15.81         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3 | 20       | 15.81         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 1        | 15.81         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1 | 3        | 15.81         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2 | 3        | 15.81         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2 | 3        | 15.81         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3 | 3        | 15.81         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 7        | 15.81         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 7        | 15.81         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 12       | 15.81         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 12       | 15.81         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 6        | 15.81         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 10       | 15.81         |
| (1,2407) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HA  | 17       | 15.81         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA  | 11       | 15.81         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H   | 2        | 15.81         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1 | 6        | 15.81         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2 | 6        | 15.81         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 6        | 15.81         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H   | 4        | 15.81         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2 | 4        | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 7        | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 7        | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 12       | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 12       | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 15       | 15.81         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 15       | 15.81         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 14       | 15.81         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 12       | 15.81         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 12       | 15.81         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 15       | 15.81         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 16       | 15.81         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 17       | 15.81         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2 | 4        | 15.81         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3 | 4        | 15.81         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H   | 15       | 15.81         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 6        | 15.81         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 6        | 15.81         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3 | 3        | 15.81         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 6        | 15.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 6        | 15.81         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 4        | 15.8          |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 4        | 15.8          |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 17       | 15.8          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 12       | 15.8          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 12       | 15.8          |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 13       | 15.8          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 5        | 15.8          |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 5        | 15.8          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 12       | 15.8          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 12       | 15.8          |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 5        | 15.8          |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 5        | 15.8          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 3        | 15.8          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 3        | 15.8          |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 10       | 15.8          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 20       | 15.8          |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 20       | 15.8          |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 13       | 15.8          |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 2        | 15.8          |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 2        | 15.8          |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 11       | 15.8          |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 11       | 15.8          |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 11       | 15.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 8        | 15.8          |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 8        | 15.8          |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 17       | 15.8          |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 2        | 15.8          |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 8        | 15.8          |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 12       | 15.8          |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 12       | 15.8          |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 3        | 15.8          |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 3        | 15.8          |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 20       | 15.8          |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 2        | 15.8          |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 10       | 15.8          |
| (1,1862) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HE1  | 9        | 15.8          |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 10       | 15.8          |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 17       | 15.8          |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 16       | 15.8          |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 7        | 15.8          |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 8        | 15.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 10       | 15.79         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 10       | 15.79         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 13       | 15.79         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 13       | 15.79         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 5        | 15.79         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 5        | 15.79         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 5        | 15.79         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 15       | 15.79         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 15       | 15.79         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 20       | 15.79         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 20       | 15.79         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 5        | 15.79         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 5        | 15.79         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 6        | 15.79         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 6        | 15.79         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 11       | 15.79         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 11       | 15.79         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 11       | 15.79         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 13       | 15.79         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 13       | 15.79         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3  | 9        | 15.79         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 6        | 15.79         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 6        | 15.79         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 8        | 15.79         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 9        | 15.79         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 4        | 15.79         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 17       | 15.79         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 10       | 15.79         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 8        | 15.79         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA2  | 17       | 15.79         |
| (1,2406) | 1:A:9:PRO:HG3  | 1:A:29:GLY:HA3  | 17       | 15.79         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 10       | 15.79         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ1  | 8        | 15.79         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ2  | 8        | 15.79         |
| (1,2234) | 1:A:9:PRO:HB2  | 1:A:31:LYS:HZ3  | 8        | 15.79         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 19       | 15.79         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 4        | 15.79         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 5        | 15.79         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 17       | 15.79         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 17       | 15.79         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 7        | 15.79         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 3        | 15.79         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 3        | 15.79         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 13       | 15.79         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 8        | 15.79         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 1        | 15.79         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 12       | 15.78         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 12       | 15.78         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 12       | 15.78         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 1        | 15.78         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 1        | 15.78         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 19       | 15.78         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 19       | 15.78         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 19       | 15.78         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 19       | 15.78         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 15       | 15.78         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 10       | 15.78         |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1  | 8        | 15.78         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 15       | 15.78         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 14       | 15.78         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 14       | 15.78         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 4        | 15.78         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 9        | 15.78         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 9        | 15.78         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 10       | 15.78         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 1        | 15.78         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 1        | 15.78         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD2  | 8        | 15.78         |
| (1,2632) | 1:A:11:TRP:HA  | 1:A:31:LYS:HD3  | 8        | 15.78         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 5        | 15.78         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 5        | 15.78         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 2        | 15.78         |
| (1,2309) | 1:A:9:PRO:HG2  | 1:A:16:GLY:H    | 14       | 15.78         |
| (1,2184) | 1:A:9:PRO:HA   | 1:A:32:TYR:H    | 17       | 15.78         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 13       | 15.78         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 13       | 15.78         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 16       | 15.78         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 20       | 15.78         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 3        | 15.78         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 5        | 15.78         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 9        | 15.78         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 19       | 15.78         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 15       | 15.78         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 6        | 15.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 5        | 15.78         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 5        | 15.78         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 11       | 15.78         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 11       | 15.78         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 3        | 15.78         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 3        | 15.78         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 3        | 15.77         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 11       | 15.77         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 18       | 15.77         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 18       | 15.77         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 15       | 15.77         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 13       | 15.77         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1  | 10       | 15.77         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 2        | 15.77         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 18       | 15.77         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 18       | 15.77         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 1        | 15.77         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 7        | 15.77         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 7        | 15.77         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 11       | 15.77         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 12       | 15.77         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 6        | 15.77         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 15       | 15.77         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 15       | 15.77         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H    | 15       | 15.77         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 9        | 15.77         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 16       | 15.77         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 16       | 15.77         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 9        | 15.77         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 5        | 15.77         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 4        | 15.77         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 11       | 15.77         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 12       | 15.77         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 5        | 15.77         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 9        | 15.77         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 8        | 15.76         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 8        | 15.76         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 15       | 15.76         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 15       | 15.76         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 11       | 15.76         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 10       | 15.76         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 10       | 15.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 9        | 15.76         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 12       | 15.76         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 1        | 15.76         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 1        | 15.76         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 12       | 15.76         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 12       | 15.76         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 12       | 15.76         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 1        | 15.76         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 1        | 15.76         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 1        | 15.76         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 6        | 15.76         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 5        | 15.76         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 15       | 15.76         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 20       | 15.76         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 1        | 15.76         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 1        | 15.76         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 9        | 15.76         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 16       | 15.76         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 16       | 15.76         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 9        | 15.76         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 9        | 15.76         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 18       | 15.76         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 18       | 15.76         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 3        | 15.76         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 7        | 15.76         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 8        | 15.76         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 8        | 15.76         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 8        | 15.76         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 18       | 15.76         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 11       | 15.75         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 4        | 15.75         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 7        | 15.75         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 7        | 15.75         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 12       | 15.75         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 18       | 15.75         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 18       | 15.75         |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 4        | 15.75         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 12       | 15.75         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 12       | 15.75         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 7        | 15.75         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 7        | 15.75         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 9        | 15.75         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 9        | 15.75         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 9        | 15.75         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 9        | 15.75         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 14       | 15.75         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 14       | 15.75         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 3        | 15.75         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 4        | 15.75         |
| (1,2665) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HB2  | 17       | 15.75         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 12       | 15.75         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 17       | 15.75         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 9        | 15.75         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 18       | 15.75         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 11       | 15.75         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 11       | 15.75         |
| (1,1915) | 1:A:6:GLN:HE22 | 1:A:33:CYS:H    | 19       | 15.75         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 13       | 15.75         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 6        | 15.75         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 7        | 15.75         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 7        | 15.75         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 7        | 15.75         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 13       | 15.75         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 13       | 15.75         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 7        | 15.75         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 10       | 15.75         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 19       | 15.75         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 19       | 15.75         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 6        | 15.75         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 17       | 15.74         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 17       | 15.74         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 8        | 15.74         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 8        | 15.74         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 6        | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 20       | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 20       | 15.74         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 20       | 15.74         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 14       | 15.74         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 11       | 15.74         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 11       | 15.74         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 2        | 15.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 11       | 15.74         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 11       | 15.74         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 13       | 15.74         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 13       | 15.74         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 18       | 15.74         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 18       | 15.74         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 15       | 15.74         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 5        | 15.74         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 9        | 15.74         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 5        | 15.74         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 5        | 15.74         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 18       | 15.74         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 18       | 15.74         |
| (1,2844) | 1:A:11:TRP:HE1 | 1:A:16:GLY:HA3  | 9        | 15.74         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 18       | 15.74         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 6        | 15.74         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 2        | 15.74         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 10       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 11       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 11       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 11       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 14       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 14       | 15.74         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 14       | 15.74         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 8        | 15.74         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 8        | 15.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 15       | 15.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 16       | 15.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 18       | 15.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 19       | 15.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 20       | 15.74         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 14       | 15.74         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 14       | 15.74         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 14       | 15.74         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 18       | 15.74         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 20       | 15.74         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 17       | 15.74         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 3        | 15.74         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 10       | 15.74         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 12       | 15.74         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 2        | 15.74         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 14       | 15.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 1        | 15.74         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 4        | 15.74         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 6        | 15.74         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 6        | 15.74         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 16       | 15.74         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 10       | 15.74         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 10       | 15.74         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 10       | 15.74         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 1        | 15.74         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 6        | 15.74         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 16       | 15.74         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 16       | 15.74         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 14       | 15.73         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 14       | 15.73         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 14       | 15.73         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 20       | 15.73         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 20       | 15.73         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 20       | 15.73         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 9        | 15.73         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 4        | 15.73         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 18       | 15.73         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 8        | 15.73         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 12       | 15.73         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 10       | 15.73         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 10       | 15.73         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 10       | 15.73         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 1        | 15.73         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 1        | 15.73         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 19       | 15.73         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 19       | 15.73         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 11       | 15.73         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 11       | 15.73         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 3        | 15.73         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 1        | 15.73         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 1        | 15.73         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 7        | 15.73         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 18       | 15.73         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2  | 19       | 15.73         |
| (1,2572) | 1:A:10:GLY:HA3 | 1:A:33:CYS:HA   | 17       | 15.73         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 17       | 15.73         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 17       | 15.73         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 1        | 15.73         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 6        | 15.73         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 16       | 15.73         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 19       | 15.73         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 8        | 15.73         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 19       | 15.73         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 20       | 15.73         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 1        | 15.73         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 1        | 15.73         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2 | 11       | 15.73         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3 | 11       | 15.73         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 6        | 15.73         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 6        | 15.73         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 15       | 15.73         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 15       | 15.73         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H   | 11       | 15.73         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 16       | 15.73         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H   | 7        | 15.73         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 4        | 15.73         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1 | 13       | 15.72         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2 | 13       | 15.72         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3 | 13       | 15.72         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H   | 7        | 15.72         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 7        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 3        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 3        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 3        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 3        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 3        | 15.72         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 3        | 15.72         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 2        | 15.72         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 2        | 15.72         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 5        | 15.72         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 5        | 15.72         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 5        | 15.72         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 20       | 15.72         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2 | 15       | 15.72         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1 | 17       | 15.72         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA  | 3        | 15.72         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 11       | 15.72         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 11       | 15.72         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 14       | 15.72         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 14       | 15.72         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 6        | 15.72         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2 | 17       | 15.72         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 16       | 15.72         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 16       | 15.72         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 16       | 15.72         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 18       | 15.72         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 18       | 15.72         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 15       | 15.72         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 3        | 15.72         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 4        | 15.72         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 14       | 15.72         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 3        | 15.72         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 17       | 15.72         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 17       | 15.72         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 17       | 15.72         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H   | 3        | 15.72         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H   | 16       | 15.72         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 7        | 15.72         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 7        | 15.72         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 16       | 15.71         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 16       | 15.71         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H   | 2        | 15.71         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 2        | 15.71         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 9        | 15.71         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 12       | 15.71         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 10       | 15.71         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2 | 2        | 15.71         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3 | 2        | 15.71         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2 | 16       | 15.71         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3 | 16       | 15.71         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 7        | 15.71         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1 | 2        | 15.71         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 3        | 15.71         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 15       | 15.71         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3 | 3        | 15.71         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 7        | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 7        | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 7        | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 9        | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 9        | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 19       | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 19       | 15.71         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 20       | 15.71         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 20       | 15.71         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 12       | 15.71         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 20       | 15.71         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 20       | 15.71         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 15       | 15.71         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 9        | 15.71         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 9        | 15.71         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 12       | 15.71         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H   | 8        | 15.71         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H   | 1        | 15.71         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 18       | 15.71         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 2        | 15.71         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3 | 18       | 15.71         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 7        | 15.7          |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 7        | 15.7          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 19       | 15.7          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 19       | 15.7          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 19       | 15.7          |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 6        | 15.7          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 2        | 15.7          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 2        | 15.7          |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 6        | 15.7          |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3 | 4        | 15.7          |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3 | 5        | 15.7          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 14       | 15.7          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 14       | 15.7          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 10       | 15.7          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 10       | 15.7          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 10       | 15.7          |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2 | 15       | 15.7          |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3 | 15       | 15.7          |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 3        | 15.7          |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 15       | 15.7          |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 8        | 15.7          |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 8        | 15.7          |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 5        | 15.7          |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 7        | 15.7          |
| (1,2177) | 1:A:9:PRO:HA   | 1:A:28:SER:H   | 17       | 15.7          |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 16       | 15.7          |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 18       | 15.7          |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2 | 13       | 15.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 16       | 15.7          |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 16       | 15.7          |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 18       | 15.7          |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 18       | 15.7          |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 17       | 15.7          |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 9        | 15.7          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 1        | 15.7          |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 1        | 15.7          |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 13       | 15.7          |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 11       | 15.7          |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 19       | 15.7          |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 18       | 15.7          |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 11       | 15.7          |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 9        | 15.7          |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 9        | 15.7          |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 19       | 15.69         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 19       | 15.69         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 2        | 15.69         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 2        | 15.69         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 10       | 15.69         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 10       | 15.69         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 8        | 15.69         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 13       | 15.69         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 9        | 15.69         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 9        | 15.69         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 8        | 15.69         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 19       | 15.69         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 11       | 15.69         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 11       | 15.69         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 17       | 15.69         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 17       | 15.69         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 1        | 15.69         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 5        | 15.69         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 2        | 15.69         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 10       | 15.69         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 9        | 15.69         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 4        | 15.69         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 4        | 15.69         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 8        | 15.69         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 14       | 15.69         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 14       | 15.69         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 19       | 15.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 19       | 15.69         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 1        | 15.69         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 3        | 15.69         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 6        | 15.69         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 9        | 15.69         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 15       | 15.69         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 17       | 15.69         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 17       | 15.69         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 6        | 15.69         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 4        | 15.68         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 4        | 15.68         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 4        | 15.68         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 15       | 15.68         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 15       | 15.68         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 15       | 15.68         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 1        | 15.68         |
| (1,747)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HD2  | 3        | 15.68         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 3        | 15.68         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 18       | 15.68         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 18       | 15.68         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 10       | 15.68         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 14       | 15.68         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 19       | 15.68         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 10       | 15.68         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 10       | 15.68         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 20       | 15.68         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 9        | 15.68         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 9        | 15.68         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 1        | 15.68         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 6        | 15.68         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 6        | 15.68         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 4        | 15.68         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 10       | 15.68         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 10       | 15.68         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 5        | 15.68         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 19       | 15.68         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 19       | 15.68         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 8        | 15.68         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 14       | 15.68         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 14       | 15.68         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 11       | 15.68         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 13       | 15.68         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 11       | 15.68         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 11       | 15.68         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 11       | 15.68         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 13       | 15.68         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2 | 20       | 15.68         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3 | 20       | 15.68         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 9        | 15.68         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 6        | 15.68         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 5        | 15.68         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 3        | 15.68         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 8        | 15.68         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2 | 11       | 15.68         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3 | 11       | 15.68         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 5        | 15.68         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 17       | 15.68         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 17       | 15.68         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 17       | 15.68         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 4        | 15.67         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 4        | 15.67         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 1        | 15.67         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2 | 14       | 15.67         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3 | 14       | 15.67         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 6        | 15.67         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 14       | 15.67         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 14       | 15.67         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1 | 20       | 15.67         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2 | 20       | 15.67         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 4        | 15.67         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 4        | 15.67         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 16       | 15.67         |
| (1,2907) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:H   | 14       | 15.67         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 9        | 15.67         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 19       | 15.67         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 1        | 15.67         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1 | 1        | 15.67         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2 | 1        | 15.67         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 1        | 15.67         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 13       | 15.67         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 12       | 15.67         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 12       | 15.67         |
| (1,2188) | 1:A:9:PRO:HA   | 1:A:34:ALA:H   | 17       | 15.67         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2 | 17       | 15.67         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 17       | 15.67         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 11       | 15.67         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 16       | 15.67         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 5        | 15.67         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 10       | 15.67         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 1        | 15.67         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 11       | 15.67         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 2        | 15.67         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 16       | 15.67         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 9        | 15.67         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 1        | 15.67         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 7        | 15.67         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 8        | 15.66         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 8        | 15.66         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 8        | 15.66         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 15       | 15.66         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 15       | 15.66         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 15       | 15.66         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 17       | 15.66         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 12       | 15.66         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 19       | 15.66         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 16       | 15.66         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 16       | 15.66         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 4        | 15.66         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 18       | 15.66         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 7        | 15.66         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 14       | 15.66         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 14       | 15.66         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 11       | 15.66         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 11       | 15.66         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 10       | 15.66         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 1        | 15.66         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 1        | 15.66         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 1        | 15.66         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 9        | 15.66         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 3        | 15.66         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 4        | 15.66         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H    | 9        | 15.66         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H    | 11       | 15.66         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 2        | 15.66         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 2        | 15.66         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 6        | 15.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 5        | 15.66         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 5        | 15.66         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 12       | 15.66         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 17       | 15.66         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 16       | 15.66         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 16       | 15.66         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 8        | 15.65         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 14       | 15.65         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 2        | 15.65         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 2        | 15.65         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG2  | 20       | 15.65         |
| (1,702)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HG3  | 20       | 15.65         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 4        | 15.65         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 4        | 15.65         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 18       | 15.65         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 10       | 15.65         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 10       | 15.65         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 2        | 15.65         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 3        | 15.65         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 7        | 15.65         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 7        | 15.65         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 7        | 15.65         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 2        | 15.65         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 10       | 15.65         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 15       | 15.65         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 15       | 15.65         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 11       | 15.65         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 16       | 15.65         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 10       | 15.65         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 10       | 15.65         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 8        | 15.65         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 10       | 15.65         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 14       | 15.65         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 20       | 15.65         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 15       | 15.65         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 2        | 15.65         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 12       | 15.65         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 12       | 15.65         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 16       | 15.64         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 16       | 15.64         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 3        | 15.64         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 3        | 15.64         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 15       | 15.64         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2 | 13       | 15.64         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 19       | 15.64         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 8        | 15.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1 | 13       | 15.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2 | 13       | 15.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3 | 13       | 15.64         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 9        | 15.64         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 19       | 15.64         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 9        | 15.64         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2 | 2        | 15.64         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3 | 2        | 15.64         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 8        | 15.64         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 8        | 15.64         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1 | 16       | 15.64         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2 | 16       | 15.64         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3 | 16       | 15.64         |
| (1,2612) | 1:A:11:TRP:H   | 1:A:33:CYS:HB2 | 17       | 15.64         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2 | 6        | 15.64         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 17       | 15.64         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 3        | 15.64         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H   | 1        | 15.64         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 8        | 15.64         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 20       | 15.64         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 1        | 15.64         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 11       | 15.64         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 4        | 15.64         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 5        | 15.64         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H   | 20       | 15.64         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 12       | 15.64         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 12       | 15.64         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 7        | 15.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 1        | 15.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 1        | 15.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 12       | 15.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 12       | 15.64         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H   | 9        | 15.64         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2 | 20       | 15.63         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3 | 20       | 15.63         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 18       | 15.63         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H   | 18       | 15.63         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H   | 20       | 15.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 20       | 15.63         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 13       | 15.63         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 9        | 15.63         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 6        | 15.63         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 2        | 15.63         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 9        | 15.63         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 11       | 15.63         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 20       | 15.63         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 8        | 15.63         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 8        | 15.63         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 15       | 15.63         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 15       | 15.63         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 1        | 15.63         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 8        | 15.63         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 8        | 15.63         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 12       | 15.63         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 20       | 15.63         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 5        | 15.63         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 5        | 15.63         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 5        | 15.63         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 14       | 15.63         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 6        | 15.63         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 6        | 15.63         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 6        | 15.63         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 7        | 15.63         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 18       | 15.63         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 19       | 15.63         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 2        | 15.63         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 9        | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 16       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 16       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 18       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 18       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 19       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 19       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB2  | 20       | 15.63         |
| (1,1671) | 1:A:6:GLN:HB3  | 1:A:30:PRO:HB3  | 20       | 15.63         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 8        | 15.63         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 18       | 15.63         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 19       | 15.63         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 18       | 15.63         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 17       | 15.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 17       | 15.63         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1  | 9        | 15.63         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 16       | 15.63         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 16       | 15.63         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 16       | 15.63         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 8        | 15.62         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 8        | 15.62         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 6        | 15.62         |
| (1,940)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:H    | 19       | 15.62         |
| (1,940)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:H    | 19       | 15.62         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 15       | 15.62         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 11       | 15.62         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 13       | 15.62         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 20       | 15.62         |
| (1,3441) | 1:A:15:ARG:HE  | 1:A:31:LYS:HA   | 7        | 15.62         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 3        | 15.62         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 3        | 15.62         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 7        | 15.62         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 7        | 15.62         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 19       | 15.62         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 19       | 15.62         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 19       | 15.62         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 1        | 15.62         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 5        | 15.62         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 6        | 15.62         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 12       | 15.62         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 12       | 15.62         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 9        | 15.62         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 9        | 15.62         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 9        | 15.62         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 5        | 15.62         |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H    | 17       | 15.62         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 3        | 15.62         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 8        | 15.62         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 8        | 15.62         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 5        | 15.62         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 18       | 15.62         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 18       | 15.62         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 9        | 15.62         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 7        | 15.62         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 20       | 15.62         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 11       | 15.62         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 9        | 15.62         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 17       | 15.62         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 16       | 15.62         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 19       | 15.62         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 10       | 15.62         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 10       | 15.62         |
| (1,1301) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HB3  | 4        | 15.62         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 3        | 15.62         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 3        | 15.62         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 1        | 15.62         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 3        | 15.62         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 3        | 15.62         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 6        | 15.61         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 6        | 15.61         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 14       | 15.61         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 14       | 15.61         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 5        | 15.61         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 12       | 15.61         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 3        | 15.61         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 3        | 15.61         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 13       | 15.61         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 14       | 15.61         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 5        | 15.61         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 5        | 15.61         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 9        | 15.61         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 5        | 15.61         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 5        | 15.61         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 5        | 15.61         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 18       | 15.61         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 2        | 15.61         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 16       | 15.61         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 16       | 15.61         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 5        | 15.61         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 5        | 15.61         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 6        | 15.61         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 6        | 15.61         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 12       | 15.61         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 12       | 15.61         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 6        | 15.61         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 1        | 15.61         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 17       | 15.61         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 17       | 15.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 7        | 15.61         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 7        | 15.61         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 13       | 15.61         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 13       | 15.61         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 14       | 15.61         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 12       | 15.61         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 12       | 15.61         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 8        | 15.61         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 8        | 15.61         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 8        | 15.61         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 16       | 15.61         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 11       | 15.61         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 13       | 15.61         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 11       | 15.61         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 12       | 15.61         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 3        | 15.61         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 3        | 15.61         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 7        | 15.61         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 20       | 15.61         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 13       | 15.61         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA   | 15       | 15.61         |
| (1,1607) | 1:A:6:GLN:HB2  | 1:A:31:LYS:H    | 16       | 15.61         |
| (1,1306) | 1:A:4:ASN:HD21 | 1:A:33:CYS:H    | 20       | 15.61         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 10       | 15.61         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 3        | 15.61         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H    | 16       | 15.6          |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H    | 16       | 15.6          |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 20       | 15.6          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 8        | 15.6          |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 8        | 15.6          |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 6        | 15.6          |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 10       | 15.6          |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 16       | 15.6          |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 16       | 15.6          |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 16       | 15.6          |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 13       | 15.6          |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 17       | 15.6          |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 14       | 15.6          |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 4        | 15.6          |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 14       | 15.6          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 2        | 15.6          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 2        | 15.6          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 7        | 15.6          |
| (1,2208) | 1:A:9:PRO:HB2  | 1:A:18:LEU:H   | 6        | 15.6          |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 15       | 15.6          |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 14       | 15.6          |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 20       | 15.6          |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 6        | 15.6          |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 6        | 15.6          |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2 | 13       | 15.6          |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 7        | 15.6          |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 7        | 15.6          |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 5        | 15.6          |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA  | 17       | 15.6          |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 7        | 15.6          |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 19       | 15.6          |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3 | 15       | 15.6          |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 12       | 15.59         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H   | 18       | 15.59         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 18       | 15.59         |
| (1,938)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:H   | 20       | 15.59         |
| (1,938)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:H   | 20       | 15.59         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 18       | 15.59         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3 | 10       | 15.59         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 1        | 15.59         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 1        | 15.59         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 15       | 15.59         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 15       | 15.59         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 11       | 15.59         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 10       | 15.59         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 10       | 15.59         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2 | 1        | 15.59         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 3        | 15.59         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 19       | 15.59         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 2        | 15.59         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 5        | 15.59         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 5        | 15.59         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 1        | 15.59         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 12       | 15.59         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 9        | 15.59         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 19       | 15.59         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 4        | 15.59         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 18       | 15.59         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 9        | 15.59         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1104) | 1:A:4:ASN:H     | 1:A:31:LYS:HB3  | 3        | 15.59         |
| (1,799)  | 1:A:3:PRO:HB2   | 1:A:22:GLN:HA   | 16       | 15.58         |
| (1,787)  | 1:A:3:PRO:HB2   | 1:A:16:GLY:HA3  | 13       | 15.58         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB1  | 16       | 15.58         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB2  | 16       | 15.58         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB3  | 16       | 15.58         |
| (1,662)  | 1:A:2:GLY:H     | 1:A:31:LYS:HZ1  | 10       | 15.58         |
| (1,662)  | 1:A:2:GLY:H     | 1:A:31:LYS:HZ2  | 10       | 15.58         |
| (1,662)  | 1:A:2:GLY:H     | 1:A:31:LYS:HZ3  | 10       | 15.58         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 4        | 15.58         |
| (1,3733) | 1:A:18:LEU:HG   | 1:A:22:GLN:HE22 | 5        | 15.58         |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 7        | 15.58         |
| (1,3624) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HB3  | 17       | 15.58         |
| (1,3132) | 1:A:13:GLY:H    | 1:A:31:LYS:HZ1  | 15       | 15.58         |
| (1,3132) | 1:A:13:GLY:H    | 1:A:31:LYS:HZ2  | 15       | 15.58         |
| (1,3132) | 1:A:13:GLY:H    | 1:A:31:LYS:HZ3  | 15       | 15.58         |
| (1,3124) | 1:A:13:GLY:H    | 1:A:30:PRO:HG2  | 8        | 15.58         |
| (1,3124) | 1:A:13:GLY:H    | 1:A:30:PRO:HG3  | 8        | 15.58         |
| (1,2705) | 1:A:11:TRP:HB3  | 1:A:29:GLY:H    | 2        | 15.58         |
| (1,2408) | 1:A:9:PRO:HG3   | 1:A:31:LYS:HZ1  | 9        | 15.58         |
| (1,2408) | 1:A:9:PRO:HG3   | 1:A:31:LYS:HZ2  | 9        | 15.58         |
| (1,2408) | 1:A:9:PRO:HG3   | 1:A:31:LYS:HZ3  | 9        | 15.58         |
| (1,2375) | 1:A:9:PRO:HG3   | 1:A:16:GLY:H    | 12       | 15.58         |
| (1,2234) | 1:A:9:PRO:HB2   | 1:A:31:LYS:HZ1  | 18       | 15.58         |
| (1,2234) | 1:A:9:PRO:HB2   | 1:A:31:LYS:HZ2  | 18       | 15.58         |
| (1,2234) | 1:A:9:PRO:HB2   | 1:A:31:LYS:HZ3  | 18       | 15.58         |
| (1,2186) | 1:A:9:PRO:HA    | 1:A:33:CYS:H    | 16       | 15.58         |
| (1,2186) | 1:A:9:PRO:HA    | 1:A:33:CYS:H    | 18       | 15.58         |
| (1,2186) | 1:A:9:PRO:HA    | 1:A:33:CYS:H    | 19       | 15.58         |
| (1,1244) | 1:A:4:ASN:HB3   | 1:A:35:HIS:HD2  | 1        | 15.58         |
| (1,1201) | 1:A:4:ASN:HB3   | 1:A:16:GLY:HA3  | 6        | 15.58         |
| (1,938)  | 1:A:3:PRO:HG2   | 1:A:32:TYR:H    | 19       | 15.57         |
| (1,938)  | 1:A:3:PRO:HG3   | 1:A:32:TYR:H    | 19       | 15.57         |
| (1,934)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:H    | 2        | 15.57         |
| (1,934)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:H    | 2        | 15.57         |
| (1,858)  | 1:A:3:PRO:HB3   | 1:A:22:GLN:H    | 16       | 15.57         |
| (1,858)  | 1:A:3:PRO:HB3   | 1:A:22:GLN:H    | 18       | 15.57         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB1  | 7        | 15.57         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB2  | 7        | 15.57         |
| (1,745)  | 1:A:2:GLY:HA3   | 1:A:34:ALA:HB3  | 7        | 15.57         |
| (1,735)  | 1:A:2:GLY:HA3   | 1:A:29:GLY:H    | 1        | 15.57         |
| (1,735)  | 1:A:2:GLY:HA3   | 1:A:29:GLY:H    | 2        | 15.57         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H   | 15       | 15.57         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 7        | 15.57         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 5        | 15.57         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1 | 10       | 15.57         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1 | 11       | 15.57         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2 | 9        | 15.57         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 7        | 15.57         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 7        | 15.57         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3 | 17       | 15.57         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3 | 17       | 15.57         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 4        | 15.57         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 4        | 15.57         |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2 | 15       | 15.57         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2 | 8        | 15.57         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3 | 8        | 15.57         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 13       | 15.57         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 3        | 15.57         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 3        | 15.57         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 19       | 15.57         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 8        | 15.57         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 2        | 15.57         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 3        | 15.57         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 3        | 15.57         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 14       | 15.57         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H   | 14       | 15.57         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 6        | 15.57         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 6        | 15.57         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 4        | 15.57         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 14       | 15.57         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 14       | 15.57         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H   | 16       | 15.57         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 13       | 15.57         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 13       | 15.57         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2 | 6        | 15.57         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 6        | 15.57         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 4        | 15.56         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 20       | 15.56         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 7        | 15.56         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 14       | 15.56         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA  | 19       | 15.56         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H   | 9        | 15.56         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2 | 7        | 15.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 19       | 15.56         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 4        | 15.56         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 9        | 15.56         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 8        | 15.56         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 8        | 15.56         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 18       | 15.56         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 13       | 15.56         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 11       | 15.56         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 5        | 15.56         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 5        | 15.56         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 6        | 15.56         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 19       | 15.56         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 9        | 15.56         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 9        | 15.56         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 9        | 15.56         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 17       | 15.56         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 17       | 15.56         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 5        | 15.56         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 5        | 15.56         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 6        | 15.56         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 4        | 15.56         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 1        | 15.56         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 13       | 15.56         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 14       | 15.56         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 18       | 15.56         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 17       | 15.56         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 17       | 15.56         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 6        | 15.56         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 3        | 15.56         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 3        | 15.56         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 3        | 15.56         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB1  | 2        | 15.55         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB2  | 2        | 15.55         |
| (1,993)  | 1:A:3:PRO:HD2  | 1:A:34:ALA:HB3  | 2        | 15.55         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 17       | 15.55         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 17       | 15.55         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 17       | 15.55         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 17       | 15.55         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 14       | 15.55         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 19       | 15.55         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 12       | 15.55         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 16       | 15.55         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 17       | 15.55         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 16       | 15.55         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 11       | 15.55         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 14       | 15.55         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 16       | 15.55         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H    | 11       | 15.55         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 17       | 15.55         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 17       | 15.55         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 17       | 15.55         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 10       | 15.55         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 9        | 15.55         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 16       | 15.55         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 13       | 15.55         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 5        | 15.55         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 5        | 15.55         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H    | 20       | 15.55         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 7        | 15.55         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 20       | 15.55         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 13       | 15.55         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 8        | 15.55         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 14       | 15.55         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 14       | 15.55         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 11       | 15.55         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 3        | 15.55         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 2        | 15.55         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 14       | 15.55         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 14       | 15.54         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 14       | 15.54         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 10       | 15.54         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 10       | 15.54         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 7        | 15.54         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 5        | 15.54         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD2  | 17       | 15.54         |
| (1,657)  | 1:A:2:GLY:H    | 1:A:30:PRO:HD3  | 17       | 15.54         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 7        | 15.54         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 7        | 15.54         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 2        | 15.54         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 2        | 15.54         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 11       | 15.54         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 11       | 15.54         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 20       | 15.54         |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 20       | 15.54         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 17       | 15.54         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 17       | 15.54         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 16       | 15.54         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 15       | 15.54         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 15       | 15.54         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 15       | 15.54         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 16       | 15.54         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 16       | 15.54         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 2        | 15.54         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 2        | 15.54         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 11       | 15.54         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 4        | 15.54         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 16       | 15.54         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 12       | 15.54         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 2        | 15.54         |
| (1,1608) | 1:A:6:GLN:HB2  | 1:A:31:LYS:HA  | 2        | 15.54         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 19       | 15.54         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 3        | 15.54         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2 | 19       | 15.53         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3 | 19       | 15.53         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 5        | 15.53         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 5        | 15.53         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 3        | 15.53         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 7        | 15.53         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 2        | 15.53         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 1        | 15.53         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 14       | 15.53         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2 | 5        | 15.53         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1 | 7        | 15.53         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 8        | 15.53         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 8        | 15.53         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 5        | 15.53         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 14       | 15.53         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 17       | 15.53         |
| (1,3128) | 1:A:13:GLY:H   | 1:A:31:LYS:HG3 | 16       | 15.53         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 13       | 15.53         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 14       | 15.53         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 10       | 15.53         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 14       | 15.53         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 14       | 15.53         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 18       | 15.53         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 18       | 15.53         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 9        | 15.53         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 5        | 15.53         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 5        | 15.53         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H   | 18       | 15.53         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 1        | 15.52         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 12       | 15.52         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 4        | 15.52         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 11       | 15.52         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 11       | 15.52         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3 | 3        | 15.52         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 17       | 15.52         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2 | 12       | 15.52         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3 | 6        | 15.52         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1 | 16       | 15.52         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2 | 16       | 15.52         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3 | 16       | 15.52         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 20       | 15.52         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG  | 2        | 15.52         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 5        | 15.52         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 7        | 15.52         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 11       | 15.52         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 5        | 15.52         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2 | 4        | 15.52         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3 | 4        | 15.52         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 9        | 15.52         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 14       | 15.52         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 20       | 15.52         |
| (1,1853) | 1:A:6:GLN:HE21 | 1:A:33:CYS:H   | 19       | 15.52         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 17       | 15.52         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA  | 19       | 15.52         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 7        | 15.52         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 4        | 15.52         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 6        | 15.52         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 6        | 15.52         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 14       | 15.52         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 14       | 15.52         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3 | 12       | 15.52         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 12       | 15.52         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 12       | 15.52         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 12       | 15.52         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 2        | 15.52         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 2        | 15.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 14       | 15.52         |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 19       | 15.52         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 19       | 15.52         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 17       | 15.52         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 4        | 15.51         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 4        | 15.51         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 6        | 15.51         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 13       | 15.51         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 13       | 15.51         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3  | 2        | 15.51         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 6        | 15.51         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 6        | 15.51         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 3        | 15.51         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 13       | 15.51         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 12       | 15.51         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 12       | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 1        | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 1        | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 1        | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 14       | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 14       | 15.51         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 14       | 15.51         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 14       | 15.51         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 15       | 15.51         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 13       | 15.51         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 13       | 15.51         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD2  | 8        | 15.51         |
| (1,2820) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HD3  | 8        | 15.51         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 1        | 15.51         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 1        | 15.51         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 1        | 15.51         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 5        | 15.51         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 2        | 15.51         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 9        | 15.51         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 3        | 15.51         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 3        | 15.51         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 15       | 15.51         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 15       | 15.51         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 10       | 15.51         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 15       | 15.51         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 15       | 15.51         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 16       | 15.51         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 16       | 15.51         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 18       | 15.51         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 9        | 15.51         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 5        | 15.51         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 1        | 15.51         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 6        | 15.51         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 6        | 15.51         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 6        | 15.51         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 10       | 15.5          |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 10       | 15.5          |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 15       | 15.5          |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 15       | 15.5          |
| (1,748)  | 1:A:2:GLY:HA3  | 1:A:35:HIS:HE1  | 1        | 15.5          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 9        | 15.5          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 9        | 15.5          |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 9        | 15.5          |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 3        | 15.5          |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 3        | 15.5          |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 7        | 15.5          |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 16       | 15.5          |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 16       | 15.5          |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 2        | 15.5          |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 2        | 15.5          |
| (1,3127) | 1:A:13:GLY:H   | 1:A:31:LYS:HB2  | 17       | 15.5          |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 5        | 15.5          |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 13       | 15.5          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 13       | 15.5          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 13       | 15.5          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 13       | 15.5          |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 12       | 15.5          |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 2        | 15.5          |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 14       | 15.5          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 4        | 15.5          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 4        | 15.5          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 4        | 15.5          |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 1        | 15.5          |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 12       | 15.5          |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 12       | 15.5          |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 17       | 15.5          |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 17       | 15.5          |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 8        | 15.5          |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 9        | 15.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 11       | 15.5          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2 | 8        | 15.5          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3 | 8        | 15.5          |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 7        | 15.5          |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 17       | 15.5          |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 16       | 15.5          |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 16       | 15.5          |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 17       | 15.49         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 17       | 15.49         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H   | 5        | 15.49         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 7        | 15.49         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 13       | 15.49         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 1        | 15.49         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 2        | 15.49         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H   | 7        | 15.49         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1 | 4        | 15.49         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 3        | 15.49         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2 | 16       | 15.49         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3 | 5        | 15.49         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1 | 13       | 15.49         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2 | 13       | 15.49         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 9        | 15.49         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 5        | 15.49         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG  | 3        | 15.49         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG  | 4        | 15.49         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2 | 2        | 15.49         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3 | 2        | 15.49         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 7        | 15.49         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 3        | 15.49         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 15       | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 6        | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 6        | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 8        | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 8        | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 10       | 15.49         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 10       | 15.49         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 6        | 15.49         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA  | 11       | 15.49         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 11       | 15.49         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 14       | 15.49         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 3        | 15.49         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 3        | 15.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 4        | 15.49         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 4        | 15.49         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 12       | 15.49         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 1        | 15.49         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 1        | 15.49         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 8        | 15.48         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 20       | 15.48         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 14       | 15.48         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 14       | 15.48         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 9        | 15.48         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 9        | 15.48         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 11       | 15.48         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 16       | 15.48         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 9        | 15.48         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 9        | 15.48         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 6        | 15.48         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 3        | 15.48         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 3        | 15.48         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 1        | 15.48         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 1        | 15.48         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 7        | 15.48         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 19       | 15.48         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 19       | 15.48         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 9        | 15.48         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 9        | 15.48         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 3        | 15.48         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 3        | 15.48         |
| (1,2831) | 1:A:11:TRP:HE3 | 1:A:35:HIS:HE1  | 1        | 15.48         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 14       | 15.48         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 10       | 15.48         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 18       | 15.48         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 20       | 15.48         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 6        | 15.48         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 6        | 15.48         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ1  | 18       | 15.48         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ2  | 18       | 15.48         |
| (1,2481) | 1:A:10:GLY:H   | 1:A:31:LYS:HZ3  | 18       | 15.48         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 16       | 15.48         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 20       | 15.48         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 19       | 15.48         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 13       | 15.48         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 13       | 15.48         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 4        | 15.48         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 1        | 15.48         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 14       | 15.48         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 14       | 15.48         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 9        | 15.48         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 9        | 15.48         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 14       | 15.48         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA  | 3        | 15.47         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA  | 3        | 15.47         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 13       | 15.47         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 13       | 15.47         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 15       | 15.47         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 16       | 15.47         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 18       | 15.47         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 5        | 15.47         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 5        | 15.47         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 5        | 15.47         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 10       | 15.47         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2 | 5        | 15.47         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3 | 5        | 15.47         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 13       | 15.47         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 13       | 15.47         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 7        | 15.47         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 19       | 15.47         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 10       | 15.47         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 10       | 15.47         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 9        | 15.47         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H   | 14       | 15.47         |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H   | 4        | 15.47         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 5        | 15.47         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H   | 6        | 15.47         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 1        | 15.47         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 1        | 15.47         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 11       | 15.47         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 11       | 15.47         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 17       | 15.47         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 11       | 15.47         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 11       | 15.47         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 13       | 15.47         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 13       | 15.47         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2 | 4        | 15.47         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3 | 4        | 15.47         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 14       | 15.46         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 2        | 15.46         |
| (1,858)  | 1:A:3:PRO:HB3  | 1:A:22:GLN:H    | 10       | 15.46         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 4        | 15.46         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 12       | 15.46         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 8        | 15.46         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 1        | 15.46         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 11       | 15.46         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 6        | 15.46         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 9        | 15.46         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 19       | 15.46         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 19       | 15.46         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 14       | 15.46         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 4        | 15.46         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 4        | 15.46         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 4        | 15.46         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 4        | 15.46         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 18       | 15.46         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 3        | 15.46         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 3        | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 18       | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 18       | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 19       | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 19       | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 20       | 15.46         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 20       | 15.46         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 5        | 15.46         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 5        | 15.46         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 17       | 15.46         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 17       | 15.46         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 20       | 15.46         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 1        | 15.46         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 7        | 15.46         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 11       | 15.46         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 12       | 15.46         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 20       | 15.46         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 9        | 15.46         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 9        | 15.46         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 12       | 15.46         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 12       | 15.46         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 4        | 15.46         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 4        | 15.46         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 11       | 15.46         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 11       | 15.46         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 11       | 15.46         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 11       | 15.45         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 9        | 15.45         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 9        | 15.45         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 9        | 15.45         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 9        | 15.45         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 9        | 15.45         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 9        | 15.45         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA  | 19       | 15.45         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 10       | 15.45         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1 | 10       | 15.45         |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1 | 2        | 15.45         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 17       | 15.45         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 17       | 15.45         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 11       | 15.45         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 11       | 15.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 4        | 15.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 4        | 15.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2 | 9        | 15.45         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3 | 9        | 15.45         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 16       | 15.45         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 16       | 15.45         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 20       | 15.45         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 20       | 15.45         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 19       | 15.45         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 18       | 15.45         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1 | 8        | 15.45         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2 | 8        | 15.45         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3 | 8        | 15.45         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 14       | 15.45         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 8        | 15.45         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2 | 13       | 15.45         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H   | 8        | 15.45         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 18       | 15.45         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H   | 19       | 15.45         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 13       | 15.45         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 6        | 15.45         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 6        | 15.45         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 13       | 15.45         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 16       | 15.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 16       | 15.45         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 3        | 15.45         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 3        | 15.45         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 15       | 15.45         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 8        | 15.45         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 8        | 15.45         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 8        | 15.45         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 17       | 15.45         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 17       | 15.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 4        | 15.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 4        | 15.45         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 4        | 15.45         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 11       | 15.45         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 11       | 15.45         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 14       | 15.44         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 14       | 15.44         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 14       | 15.44         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 14       | 15.44         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 17       | 15.44         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 17       | 15.44         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 7        | 15.44         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 15       | 15.44         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 15       | 15.44         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 15       | 15.44         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2  | 12       | 15.44         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 14       | 15.44         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 4        | 15.44         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 4        | 15.44         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 5        | 15.44         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 15       | 15.44         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 20       | 15.44         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 11       | 15.44         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 9        | 15.44         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 16       | 15.44         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 16       | 15.44         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 9        | 15.44         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 5        | 15.44         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 11       | 15.44         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 19       | 15.44         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 2        | 15.44         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 2        | 15.44         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 2        | 15.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 2        | 15.44         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 7        | 15.44         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 7        | 15.44         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 14       | 15.44         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 14       | 15.44         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 3        | 15.44         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 4        | 15.44         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 11       | 15.44         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 11       | 15.44         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 13       | 15.44         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 13       | 15.44         |
| (1,1342) | 1:A:4:ASN:HD22 | 1:A:17:GLY:H    | 14       | 15.44         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 15       | 15.44         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 5        | 15.44         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 5        | 15.44         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 5        | 15.44         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 4        | 15.43         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 4        | 15.43         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 5        | 15.43         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 5        | 15.43         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 6        | 15.43         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 6        | 15.43         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 3        | 15.43         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 11       | 15.43         |
| (1,669)  | 1:A:2:GLY:H    | 1:A:34:ALA:H    | 16       | 15.43         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 5        | 15.43         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 5        | 15.43         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 20       | 15.43         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 20       | 15.43         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 5        | 15.43         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 18       | 15.43         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 18       | 15.43         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 11       | 15.43         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 17       | 15.43         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 17       | 15.43         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 18       | 15.43         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 20       | 15.43         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 15       | 15.43         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 10       | 15.43         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H    | 2        | 15.43         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG2  | 14       | 15.43         |
| (1,2180) | 1:A:9:PRO:HA   | 1:A:31:LYS:HG3  | 14       | 15.43         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 16       | 15.43         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 4        | 15.43         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 4        | 15.43         |
| (1,1860) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HA   | 5        | 15.43         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 1        | 15.43         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 1        | 15.43         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 5        | 15.43         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 5        | 15.43         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 4        | 15.43         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 5        | 15.43         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 5        | 15.43         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 15       | 15.43         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 15       | 15.43         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 17       | 15.43         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 17       | 15.43         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 4        | 15.42         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 4        | 15.42         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 3        | 15.42         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 3        | 15.42         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 4        | 15.42         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 5        | 15.42         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 10       | 15.42         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 10       | 15.42         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 10       | 15.42         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 7        | 15.42         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 11       | 15.42         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 11       | 15.42         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 4        | 15.42         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 4        | 15.42         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 2        | 15.42         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 12       | 15.42         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 3        | 15.42         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 16       | 15.42         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 14       | 15.42         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 1        | 15.42         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 19       | 15.42         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 14       | 15.42         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD2  | 8        | 15.42         |
| (1,2182) | 1:A:9:PRO:HA   | 1:A:31:LYS:HD3  | 8        | 15.42         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 18       | 15.42         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 9        | 15.42         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 9        | 15.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 7        | 15.42         |
| (1,1614) | 1:A:6:GLN:HB2  | 1:A:34:ALA:HA   | 16       | 15.42         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 2        | 15.42         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 1        | 15.42         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 1        | 15.42         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 1        | 15.42         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 6        | 15.42         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 6        | 15.42         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 6        | 15.42         |
| (1,1025) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG3  | 16       | 15.42         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG2  | 20       | 15.41         |
| (1,984)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HG3  | 20       | 15.41         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 6        | 15.41         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 6        | 15.41         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 11       | 15.41         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 11       | 15.41         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 4        | 15.41         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 4        | 15.41         |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 6        | 15.41         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 1        | 15.41         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 6        | 15.41         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 6        | 15.41         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 12       | 15.41         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 10       | 15.41         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 16       | 15.41         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 16       | 15.41         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 11       | 15.41         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 11       | 15.41         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 4        | 15.41         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 13       | 15.41         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 10       | 15.41         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 13       | 15.41         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 13       | 15.41         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 11       | 15.41         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 2        | 15.41         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 2        | 15.41         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2  | 6        | 15.41         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 7        | 15.41         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 9        | 15.41         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H    | 4        | 15.41         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 4        | 15.41         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 7        | 15.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 1        | 15.41         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 13       | 15.41         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 11       | 15.41         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 15       | 15.41         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 15       | 15.41         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 7        | 15.41         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 7        | 15.41         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 3        | 15.41         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 9        | 15.41         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 9        | 15.41         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 9        | 15.41         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 13       | 15.4          |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 13       | 15.4          |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 9        | 15.4          |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 9        | 15.4          |
| (1,799)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HA   | 2        | 15.4          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 15       | 15.4          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 15       | 15.4          |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 12       | 15.4          |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 12       | 15.4          |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 1        | 15.4          |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 7        | 15.4          |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 7        | 15.4          |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 11       | 15.4          |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 2        | 15.4          |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 2        | 15.4          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 7        | 15.4          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 7        | 15.4          |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 12       | 15.4          |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 20       | 15.4          |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 4        | 15.4          |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 1        | 15.4          |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 15       | 15.4          |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 12       | 15.4          |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 20       | 15.4          |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 20       | 15.4          |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 7        | 15.4          |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 7        | 15.4          |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 8        | 15.4          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 4        | 15.4          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 4        | 15.4          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 4        | 15.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 19       | 15.4          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 19       | 15.4          |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 19       | 15.4          |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 14       | 15.4          |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 13       | 15.4          |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 2        | 15.4          |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 18       | 15.4          |
| (1,1292) | 1:A:4:ASN:HD21 | 1:A:29:GLY:H    | 20       | 15.4          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 17       | 15.4          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 17       | 15.4          |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 12       | 15.4          |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 9        | 15.4          |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 9        | 15.4          |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 2        | 15.39         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 2        | 15.39         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 14       | 15.39         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 14       | 15.39         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 1        | 15.39         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 1        | 15.39         |
| (1,822)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HA   | 2        | 15.39         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 18       | 15.39         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 19       | 15.39         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 15       | 15.39         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 4        | 15.39         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 4        | 15.39         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 7        | 15.39         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 7        | 15.39         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 4        | 15.39         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 13       | 15.39         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 5        | 15.39         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 20       | 15.39         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 11       | 15.39         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 13       | 15.39         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 3        | 15.39         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 15       | 15.39         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 15       | 15.39         |
| (1,2521) | 1:A:10:GLY:HA2 | 1:A:35:HIS:HD2  | 1        | 15.39         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 1        | 15.39         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 1        | 15.39         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 6        | 15.39         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 1        | 15.39         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 8        | 15.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 8        | 15.39         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 6        | 15.39         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 6        | 15.39         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 3        | 15.39         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 6        | 15.39         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 1        | 15.39         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 11       | 15.39         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 19       | 15.39         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 20       | 15.39         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 4        | 15.39         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 4        | 15.39         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 12       | 15.39         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 12       | 15.39         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 12       | 15.38         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 12       | 15.38         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 15       | 15.38         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 15       | 15.38         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 13       | 15.38         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 13       | 15.38         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 1        | 15.38         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 17       | 15.38         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 17       | 15.38         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 4        | 15.38         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 20       | 15.38         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 20       | 15.38         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 10       | 15.38         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 10       | 15.38         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 2        | 15.38         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 6        | 15.38         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 13       | 15.38         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 17       | 15.38         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 6        | 15.38         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 8        | 15.38         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 10       | 15.38         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 10       | 15.38         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 12       | 15.38         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 10       | 15.38         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 5        | 15.38         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 5        | 15.38         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 9        | 15.38         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 9        | 15.38         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 2        | 15.38         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 2        | 15.38         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 8        | 15.38         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 8        | 15.38         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 4        | 15.38         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 1        | 15.38         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2  | 6        | 15.38         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 15       | 15.38         |
| (1,1173) | 1:A:4:ASN:HB2  | 1:A:34:ALA:H    | 20       | 15.38         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 20       | 15.38         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 20       | 15.38         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 4        | 15.38         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 6        | 15.37         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 6        | 15.37         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 20       | 15.37         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 20       | 15.37         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 20       | 15.37         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 20       | 15.37         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE21 | 16       | 15.37         |
| (1,800)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:HE22 | 16       | 15.37         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 14       | 15.37         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 14       | 15.37         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 11       | 15.37         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 11       | 15.37         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 11       | 15.37         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 6        | 15.37         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 12       | 15.37         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 12       | 15.37         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 4        | 15.37         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 4        | 15.37         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 18       | 15.37         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 18       | 15.37         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 2        | 15.37         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 3        | 15.37         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 3        | 15.37         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 10       | 15.37         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 10       | 15.37         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 9        | 15.37         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 19       | 15.37         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 19       | 15.37         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 19       | 15.37         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 2        | 15.37         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 14       | 15.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 5        | 15.37         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 9        | 15.37         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 9        | 15.37         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 10       | 15.36         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 10       | 15.36         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 5        | 15.36         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 5        | 15.36         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 16       | 15.36         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 3        | 15.36         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 20       | 15.36         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 15       | 15.36         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 15       | 15.36         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 19       | 15.36         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 3        | 15.36         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 3        | 15.36         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 11       | 15.36         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 11       | 15.36         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 11       | 15.36         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 11       | 15.36         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 8        | 15.36         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 6        | 15.36         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 5        | 15.36         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 6        | 15.36         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 2        | 15.36         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 2        | 15.36         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 2        | 15.36         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 10       | 15.36         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 13       | 15.36         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 8        | 15.36         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 13       | 15.36         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 5        | 15.36         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 5        | 15.36         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 7        | 15.36         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 7        | 15.36         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 15       | 15.36         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 3        | 15.36         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 5        | 15.35         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 5        | 15.35         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 1        | 15.35         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 1        | 15.35         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 1        | 15.35         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 1        | 15.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 9        | 15.35         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 9        | 15.35         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 13       | 15.35         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 13       | 15.35         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 13       | 15.35         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 11       | 15.35         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 11       | 15.35         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 19       | 15.35         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 5        | 15.35         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 15       | 15.35         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 8        | 15.35         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 3        | 15.35         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 3        | 15.35         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 4        | 15.35         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 11       | 15.35         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 8        | 15.35         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 8        | 15.35         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 8        | 15.35         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 4        | 15.35         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 2        | 15.34         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 2        | 15.34         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 9        | 15.34         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 9        | 15.34         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 10       | 15.34         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 13       | 15.34         |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 2        | 15.34         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 12       | 15.34         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 12       | 15.34         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 18       | 15.34         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 18       | 15.34         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 17       | 15.34         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 13       | 15.34         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 13       | 15.34         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 1        | 15.34         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 1        | 15.34         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 15       | 15.34         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 15       | 15.34         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 4        | 15.34         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 4        | 15.34         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 6        | 15.34         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 6        | 15.34         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2  | 3        | 15.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 5        | 15.34         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 8        | 15.34         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 8        | 15.34         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 11       | 15.34         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 20       | 15.34         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 20       | 15.34         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 15       | 15.34         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 17       | 15.34         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 16       | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 1        | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 1        | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 11       | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 11       | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 13       | 15.34         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 13       | 15.34         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2  | 10       | 15.34         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3  | 10       | 15.34         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 7        | 15.34         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 7        | 15.34         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 13       | 15.34         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 13       | 15.34         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 13       | 15.34         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 12       | 15.34         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 12       | 15.34         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 15       | 15.34         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 12       | 15.33         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 12       | 15.33         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 12       | 15.33         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 11       | 15.33         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 11       | 15.33         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 1        | 15.33         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 2        | 15.33         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 2        | 15.33         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 2        | 15.33         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 2        | 15.33         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 9        | 15.33         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 15       | 15.33         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 4        | 15.33         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 4        | 15.33         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 14       | 15.33         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 14       | 15.33         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 11       | 15.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 19       | 15.33         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 19       | 15.33         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 1        | 15.33         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 11       | 15.33         |
| (1,2346) | 1:A:9:PRO:HG2  | 1:A:32:TYR:H    | 17       | 15.33         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 2        | 15.33         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 2        | 15.33         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 2        | 15.33         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 18       | 15.33         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 16       | 15.33         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 16       | 15.33         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 18       | 15.33         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 18       | 15.33         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 6        | 15.33         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA   | 20       | 15.33         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 15       | 15.33         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 15       | 15.33         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 1        | 15.33         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 18       | 15.32         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 18       | 15.32         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 5        | 15.32         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 18       | 15.32         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 18       | 15.32         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 11       | 15.32         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 9        | 15.32         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 18       | 15.32         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 11       | 15.32         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 20       | 15.32         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 20       | 15.32         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 17       | 15.32         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 17       | 15.32         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 2        | 15.32         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 2        | 15.32         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 5        | 15.32         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 5        | 15.32         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 20       | 15.32         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 20       | 15.32         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 20       | 15.32         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 14       | 15.32         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 14       | 15.32         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 9        | 15.32         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 2        | 15.32         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3 | 2        | 15.32         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 7        | 15.32         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 18       | 15.32         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 19       | 15.32         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 19       | 15.32         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 2        | 15.32         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2 | 19       | 15.32         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3 | 19       | 15.32         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 2        | 15.32         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 18       | 15.32         |
| (1,1776) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HA  | 19       | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 7        | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 7        | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 8        | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 8        | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2 | 10       | 15.32         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 10       | 15.32         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 7        | 15.32         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 7        | 15.32         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 15       | 15.32         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 15       | 15.32         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 1        | 15.32         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 9        | 15.32         |
| (1,1178) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HE1 | 1        | 15.32         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1 | 7        | 15.32         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2 | 7        | 15.32         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3 | 7        | 15.32         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 10       | 15.32         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 10       | 15.32         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA  | 1        | 15.31         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA  | 1        | 15.31         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA  | 11       | 15.31         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA  | 11       | 15.31         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA  | 15       | 15.31         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA  | 15       | 15.31         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 7        | 15.31         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 8        | 15.31         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 4        | 15.31         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1 | 14       | 15.31         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 7        | 15.31         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 18       | 15.31         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2 | 5        | 15.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 5        | 15.31         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 13       | 15.31         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 18       | 15.31         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 18       | 15.31         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 13       | 15.31         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 5        | 15.31         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 16       | 15.31         |
| (1,2274) | 1:A:9:PRO:HB3  | 1:A:27:GLY:HA2  | 17       | 15.31         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 4        | 15.31         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 5        | 15.31         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 6        | 15.31         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 6        | 15.31         |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 15       | 15.31         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 4        | 15.31         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 6        | 15.31         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 20       | 15.31         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 8        | 15.3          |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 8        | 15.3          |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 20       | 15.3          |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 15       | 15.3          |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 9        | 15.3          |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 9        | 15.3          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 16       | 15.3          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 16       | 15.3          |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 20       | 15.3          |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 20       | 15.3          |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 8        | 15.3          |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 8        | 15.3          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 16       | 15.3          |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 16       | 15.3          |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 13       | 15.3          |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 13       | 15.3          |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 10       | 15.3          |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 10       | 15.3          |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 6        | 15.3          |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 15       | 15.3          |
| (1,2353) | 1:A:9:PRO:HG2  | 1:A:34:ALA:H    | 17       | 15.3          |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 6        | 15.3          |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 14       | 15.3          |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 2        | 15.3          |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 16       | 15.3          |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 2        | 15.3          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3 | 2        | 15.3          |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 11       | 15.29         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 2        | 15.29         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 2        | 15.29         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 15       | 15.29         |
| (1,2895) | 1:A:11:TRP:HE1 | 1:A:35:HIS:H   | 17       | 15.29         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 19       | 15.29         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 19       | 15.29         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 19       | 15.29         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 8        | 15.29         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 8        | 15.29         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2 | 1        | 15.29         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 5        | 15.29         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 3        | 15.29         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 17       | 15.29         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 17       | 15.29         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 1        | 15.29         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 1        | 15.29         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 16       | 15.29         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 16       | 15.29         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA  | 9        | 15.29         |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H   | 1        | 15.29         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 15       | 15.29         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 15       | 15.29         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2 | 9        | 15.28         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 12       | 15.28         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD2 | 8        | 15.28         |
| (1,704)  | 1:A:2:GLY:HA2  | 1:A:31:LYS:HD3 | 8        | 15.28         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 18       | 15.28         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 18       | 15.28         |
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1 | 14       | 15.28         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 17       | 15.28         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 7        | 15.28         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2 | 5        | 15.28         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3 | 5        | 15.28         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2 | 3        | 15.28         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3 | 3        | 15.28         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2 | 16       | 15.28         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3 | 16       | 15.28         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA  | 14       | 15.28         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 20       | 15.28         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 2        | 15.28         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 2        | 15.28         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 13       | 15.28         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 13       | 15.28         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 7        | 15.28         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 1        | 15.28         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 20       | 15.28         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3  | 6        | 15.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ1  | 18       | 15.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ2  | 18       | 15.28         |
| (1,2183) | 1:A:9:PRO:HA   | 1:A:31:LYS:HZ3  | 18       | 15.28         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 5        | 15.28         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 12       | 15.28         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 3        | 15.28         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 12       | 15.27         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 12       | 15.27         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 12       | 15.27         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 12       | 15.27         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 6        | 15.27         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 18       | 15.27         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 18       | 15.27         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 10       | 15.27         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 9        | 15.27         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 3        | 15.27         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 3        | 15.27         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 12       | 15.27         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 16       | 15.27         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 16       | 15.27         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2  | 18       | 15.27         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3  | 18       | 15.27         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 12       | 15.27         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 12       | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 2        | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 2        | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 4        | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 4        | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 6        | 15.27         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 6        | 15.27         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 4        | 15.27         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 4        | 15.27         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 13       | 15.27         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 2        | 15.27         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 18       | 15.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 19       | 15.27         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 18       | 15.27         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 18       | 15.27         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 14       | 15.27         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG  | 5        | 15.27         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 6        | 15.27         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 16       | 15.27         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 9        | 15.27         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 19       | 15.27         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 4        | 15.27         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 2        | 15.27         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2 | 9        | 15.27         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3 | 9        | 15.27         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3 | 20       | 15.27         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1 | 2        | 15.27         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2 | 2        | 15.27         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3 | 2        | 15.27         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 16       | 15.27         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 16       | 15.27         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 16       | 15.27         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2 | 1        | 15.27         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 1        | 15.27         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H   | 17       | 15.27         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 9        | 15.26         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2 | 11       | 15.26         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3 | 11       | 15.26         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 9        | 15.26         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2 | 8        | 15.26         |
| (1,654)  | 1:A:2:GLY:H    | 1:A:29:GLY:HA3 | 17       | 15.26         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 20       | 15.26         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 20       | 15.26         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2 | 8        | 15.26         |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2 | 10       | 15.26         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2 | 16       | 15.26         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 3        | 15.26         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 6        | 15.26         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2 | 16       | 15.26         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3 | 16       | 15.26         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG2 | 19       | 15.26         |
| (1,3124) | 1:A:13:GLY:H   | 1:A:30:PRO:HG3 | 19       | 15.26         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 14       | 15.26         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 11       | 15.26         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 11       | 15.26         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 3        | 15.26         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 3        | 15.26         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 5        | 15.26         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 5        | 15.26         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2 | 2        | 15.26         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3 | 2        | 15.26         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 12       | 15.26         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 15       | 15.26         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3 | 4        | 15.26         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2 | 20       | 15.26         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 12       | 15.26         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 10       | 15.26         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 10       | 15.26         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 11       | 15.26         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H   | 2        | 15.26         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 7        | 15.26         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 9        | 15.26         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 18       | 15.26         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 19       | 15.26         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 20       | 15.26         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 7        | 15.26         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 7        | 15.26         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 1        | 15.26         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 7        | 15.26         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 18       | 15.26         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 20       | 15.26         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 20       | 15.26         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 18       | 15.26         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 18       | 15.26         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 16       | 15.26         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA  | 20       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 18       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 18       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 18       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 20       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 20       | 15.26         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 20       | 15.26         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2 | 10       | 15.25         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3 | 10       | 15.25         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2 | 13       | 15.25         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3 | 13       | 15.25         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 4        | 15.25         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 11       | 15.25         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1 | 1        | 15.25         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2 | 1        | 15.25         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3 | 1        | 15.25         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1 | 15       | 15.25         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2 | 15       | 15.25         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 8        | 15.25         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3 | 19       | 15.25         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 3        | 15.25         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 3        | 15.25         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 9        | 15.25         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 9        | 15.25         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 20       | 15.25         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2 | 19       | 15.25         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 17       | 15.25         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2 | 10       | 15.25         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3 | 10       | 15.25         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 12       | 15.25         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 7        | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 12       | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 12       | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 14       | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 14       | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 19       | 15.25         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 19       | 15.25         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 8        | 15.25         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 11       | 15.25         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2 | 14       | 15.25         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 5        | 15.25         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 17       | 15.25         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 18       | 15.25         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 18       | 15.25         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 19       | 15.25         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 19       | 15.25         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 12       | 15.25         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 12       | 15.25         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 7        | 15.24         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 7        | 15.24         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1 | 5        | 15.24         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1 | 19       | 15.24         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 8        | 15.24         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 20       | 15.24         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2 | 19       | 15.24         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3 | 19       | 15.24         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 15       | 15.24         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3 | 18       | 15.24         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 7        | 15.24         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA  | 8        | 15.24         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 1        | 15.24         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2 | 8        | 15.24         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 1        | 15.24         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 10       | 15.24         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 2        | 15.24         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 8        | 15.24         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 20       | 15.24         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1 | 3        | 15.24         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2 | 3        | 15.24         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 11       | 15.24         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 13       | 15.24         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 3        | 15.24         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 14       | 15.24         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 17       | 15.24         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 17       | 15.24         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 17       | 15.24         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 3        | 15.24         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 7        | 15.24         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2 | 17       | 15.24         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 16       | 15.24         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 16       | 15.24         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG2 | 19       | 15.24         |
| (1,1447) | 1:A:5:GLY:H    | 1:A:30:PRO:HG3 | 19       | 15.24         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 3        | 15.24         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 3        | 15.24         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 8        | 15.24         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 8        | 15.24         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H   | 3        | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 7        | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 7        | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 7        | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 19       | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 19       | 15.24         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 19       | 15.24         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2 | 15       | 15.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 12       | 15.23         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 12       | 15.23         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 12       | 15.23         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 12       | 15.23         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 18       | 15.23         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 17       | 15.23         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 14       | 15.23         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 14       | 15.23         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 19       | 15.23         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 19       | 15.23         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 18       | 15.23         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 6        | 15.23         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 6        | 15.23         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 11       | 15.23         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 11       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 12       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 12       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 18       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 18       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 19       | 15.23         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 19       | 15.23         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 13       | 15.23         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 13       | 15.23         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 13       | 15.23         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 5        | 15.23         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 5        | 15.23         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 12       | 15.23         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 3        | 15.23         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 3        | 15.23         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 3        | 15.23         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 1        | 15.23         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 5        | 15.23         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 6        | 15.23         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 20       | 15.23         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 20       | 15.23         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 13       | 15.23         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 13       | 15.23         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 19       | 15.23         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 19       | 15.23         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 9        | 15.23         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 17       | 15.22         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 10       | 15.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 10       | 15.22         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 10       | 15.22         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 19       | 15.22         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 6        | 15.22         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 16       | 15.22         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 16       | 15.22         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 5        | 15.22         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 5        | 15.22         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 4        | 15.22         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 4        | 15.22         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 16       | 15.22         |
| (1,3126) | 1:A:13:GLY:H   | 1:A:31:LYS:HA   | 19       | 15.22         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 4        | 15.22         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 4        | 15.22         |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 20       | 15.22         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 7        | 15.22         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 7        | 15.22         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 17       | 15.22         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 8        | 15.22         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 17       | 15.22         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 10       | 15.22         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H    | 4        | 15.22         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 2        | 15.22         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 3        | 15.22         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 6        | 15.22         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 18       | 15.22         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 18       | 15.22         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 5        | 15.22         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 4        | 15.22         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 4        | 15.22         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 7        | 15.22         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 7        | 15.22         |
| (1,1245) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HE1  | 19       | 15.22         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 6        | 15.22         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 6        | 15.22         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 10       | 15.22         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 10       | 15.22         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 1        | 15.21         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 1        | 15.21         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 3        | 15.21         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1  | 13       | 15.21         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1  | 13       | 15.21         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 10       | 15.21         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 13       | 15.21         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 9        | 15.21         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 5        | 15.21         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 5        | 15.21         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 2        | 15.21         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 8        | 15.21         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 8        | 15.21         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 9        | 15.21         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 9        | 15.21         |
| (1,2732) | 1:A:11:TRP:HD1 | 1:A:17:GLY:HA2  | 9        | 15.21         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 9        | 15.21         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 1        | 15.21         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 9        | 15.21         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 9        | 15.21         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 11       | 15.21         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 19       | 15.21         |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 19       | 15.21         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 18       | 15.21         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 1        | 15.21         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 6        | 15.21         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 6        | 15.21         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 9        | 15.21         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 13       | 15.2          |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 5        | 15.2          |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 4        | 15.2          |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 18       | 15.2          |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 18       | 15.2          |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 11       | 15.2          |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 8        | 15.2          |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 14       | 15.2          |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 20       | 15.2          |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 20       | 15.2          |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 17       | 15.2          |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 17       | 15.2          |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 17       | 15.2          |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 3        | 15.2          |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 11       | 15.2          |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 13       | 15.2          |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 13       | 15.2          |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 9        | 15.2          |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 7        | 15.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 15       | 15.2          |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 15       | 15.2          |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 4        | 15.2          |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 4        | 15.2          |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 7        | 15.2          |
| (1,1734) | 1:A:6:GLN:HG2  | 1:A:34:ALA:H    | 16       | 15.2          |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG2  | 16       | 15.2          |
| (1,1537) | 1:A:6:GLN:H    | 1:A:30:PRO:HG3  | 16       | 15.2          |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 9        | 15.2          |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 9        | 15.2          |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 15       | 15.19         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 15       | 15.19         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 8        | 15.19         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 8        | 15.19         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 4        | 15.19         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 4        | 15.19         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 4        | 15.19         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 15       | 15.19         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 15       | 15.19         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 14       | 15.19         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 14       | 15.19         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 19       | 15.19         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 3        | 15.19         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 9        | 15.19         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 15       | 15.19         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 7        | 15.19         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 7        | 15.19         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 6        | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 6        | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 6        | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 8        | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 8        | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 11       | 15.19         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 11       | 15.19         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 13       | 15.19         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 13       | 15.19         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 14       | 15.19         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 14       | 15.19         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 3        | 15.19         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 2        | 15.19         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 2        | 15.19         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 9        | 15.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 18       | 15.19         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 19       | 15.19         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 10       | 15.19         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 14       | 15.19         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 14       | 15.19         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 2        | 15.19         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 4        | 15.19         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 19       | 15.19         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 19       | 15.19         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 20       | 15.19         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 20       | 15.19         |
| (1,1307) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HA   | 20       | 15.19         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 12       | 15.19         |
| (1,1165) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HA   | 4        | 15.19         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 17       | 15.19         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 3        | 15.19         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 3        | 15.19         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 3        | 15.19         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 13       | 15.18         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 13       | 15.18         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 13       | 15.18         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 13       | 15.18         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 8        | 15.18         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 8        | 15.18         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 16       | 15.18         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 20       | 15.18         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 7        | 15.18         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 7        | 15.18         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 20       | 15.18         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 20       | 15.18         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 14       | 15.18         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 9        | 15.18         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 9        | 15.18         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 1        | 15.18         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 1        | 15.18         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 12       | 15.18         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 12       | 15.18         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 1        | 15.18         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 1        | 15.18         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 4        | 15.18         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 4        | 15.18         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 2        | 15.18         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H   | 4        | 15.18         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 11       | 15.18         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA  | 8        | 15.18         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 8        | 15.18         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 16       | 15.18         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2 | 7        | 15.18         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1 | 11       | 15.18         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 2        | 15.18         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 2        | 15.18         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 6        | 15.18         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 3        | 15.18         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 3        | 15.18         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 3        | 15.18         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 8        | 15.17         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA  | 9        | 15.17         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA  | 9        | 15.17         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 7        | 15.17         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 8        | 15.17         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H   | 18       | 15.17         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 15       | 15.17         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 15       | 15.17         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3 | 14       | 15.17         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3 | 14       | 15.17         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA  | 1        | 15.17         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 18       | 15.17         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2 | 15       | 15.17         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3 | 15       | 15.17         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2 | 13       | 15.17         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 9        | 15.17         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 18       | 15.17         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 2        | 15.17         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H   | 6        | 15.17         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 2        | 15.17         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 2        | 15.17         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 2        | 15.17         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 3        | 15.17         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 4        | 15.17         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 16       | 15.17         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 15       | 15.17         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 4        | 15.17         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 4        | 15.17         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 3        | 15.17         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 3        | 15.17         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 3        | 15.17         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 3        | 15.17         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 16       | 15.17         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 18       | 15.17         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 19       | 15.17         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 14       | 15.17         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 13       | 15.16         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 14       | 15.16         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 14       | 15.16         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 2        | 15.16         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 20       | 15.16         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 1        | 15.16         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 8        | 15.16         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 8        | 15.16         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 5        | 15.16         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 5        | 15.16         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 9        | 15.16         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 9        | 15.16         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 18       | 15.16         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 18       | 15.16         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 19       | 15.16         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 19       | 15.16         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 12       | 15.16         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 12       | 15.16         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 20       | 15.16         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 2        | 15.16         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 2        | 15.16         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 10       | 15.16         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 10       | 15.16         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 3        | 15.16         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 4        | 15.16         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 5        | 15.16         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 14       | 15.16         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 14       | 15.16         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 15       | 15.16         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 9        | 15.16         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 20       | 15.16         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 20       | 15.16         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 20       | 15.16         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 20       | 15.16         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 20       | 15.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 12       | 15.16         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 5        | 15.16         |
| (1,1340) | 1:A:4:ASN:HD22 | 1:A:16:GLY:H    | 9        | 15.16         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 11       | 15.16         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 11       | 15.16         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 11       | 15.16         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 13       | 15.16         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 15       | 15.15         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 16       | 15.15         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 3        | 15.15         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 8        | 15.15         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 6        | 15.15         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1  | 2        | 15.15         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2  | 2        | 15.15         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 5        | 15.15         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 10       | 15.15         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 10       | 15.15         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 16       | 15.15         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 16       | 15.15         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 10       | 15.15         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 10       | 15.15         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 10       | 15.15         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 9        | 15.15         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 9        | 15.15         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 13       | 15.15         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 13       | 15.15         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 18       | 15.15         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 19       | 15.15         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 20       | 15.15         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 3        | 15.15         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 15       | 15.15         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 7        | 15.15         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 9        | 15.15         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 9        | 15.15         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 13       | 15.15         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 13       | 15.15         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 20       | 15.15         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 10       | 15.15         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 17       | 15.15         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 14       | 15.15         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 6        | 15.15         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 6        | 15.15         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 6        | 15.15         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 19       | 15.15         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 19       | 15.15         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 4        | 15.14         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 4        | 15.14         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 6        | 15.14         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 6        | 15.14         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 6        | 15.14         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 16       | 15.14         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 16       | 15.14         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 15       | 15.14         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 15       | 15.14         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 14       | 15.14         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 7        | 15.14         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 7        | 15.14         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 8        | 15.14         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 8        | 15.14         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 2        | 15.14         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2  | 10       | 15.14         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 5        | 15.14         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 5        | 15.14         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 10       | 15.14         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 10       | 15.14         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 10       | 15.14         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 12       | 15.14         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 12       | 15.14         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 12       | 15.14         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG2  | 14       | 15.14         |
| (1,2606) | 1:A:11:TRP:H   | 1:A:31:LYS:HG3  | 14       | 15.14         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 16       | 15.14         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 10       | 15.14         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 3        | 15.14         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 11       | 15.14         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 11       | 15.14         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 20       | 15.14         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 20       | 15.14         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 20       | 15.14         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 16       | 15.14         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 10       | 15.14         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 1        | 15.14         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG2  | 17       | 15.14         |
| (1,2095) | 1:A:8:GLY:HA2  | 1:A:30:PRO:HG3  | 17       | 15.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 17       | 15.14         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 17       | 15.14         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 17       | 15.14         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 3        | 15.14         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 3        | 15.14         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 14       | 15.14         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 14       | 15.14         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 3        | 15.14         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 3        | 15.14         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 3        | 15.14         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 2        | 15.14         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 18       | 15.13         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 18       | 15.13         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 20       | 15.13         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 20       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 10       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 10       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 10       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 10       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 10       | 15.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 10       | 15.13         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 3        | 15.13         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 3        | 15.13         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 14       | 15.13         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 7        | 15.13         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 7        | 15.13         |
| (1,789)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:HA2  | 15       | 15.13         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 19       | 15.13         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 19       | 15.13         |
| (1,735)  | 1:A:2:GLY:HA3  | 1:A:29:GLY:H    | 19       | 15.13         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 19       | 15.13         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 3        | 15.13         |
| (1,3532) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HB3  | 12       | 15.13         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 17       | 15.13         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 8        | 15.13         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 19       | 15.13         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 19       | 15.13         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 19       | 15.13         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 8        | 15.13         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 7        | 15.13         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 7        | 15.13         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 5        | 15.13         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 5        | 15.13         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 19       | 15.13         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 19       | 15.13         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 15       | 15.13         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 2        | 15.13         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 4        | 15.13         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 10       | 15.13         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 10       | 15.13         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 10       | 15.13         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 3        | 15.13         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 3        | 15.13         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 11       | 15.13         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 2        | 15.13         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 15       | 15.13         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 15       | 15.13         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 10       | 15.13         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 12       | 15.13         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 15       | 15.13         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 15       | 15.13         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 11       | 15.13         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 9        | 15.13         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 7        | 15.13         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 2        | 15.13         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 16       | 15.12         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 16       | 15.12         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 19       | 15.12         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 19       | 15.12         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 6        | 15.12         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 8        | 15.12         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 8        | 15.12         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 15       | 15.12         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 2        | 15.12         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 7        | 15.12         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 7        | 15.12         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 11       | 15.12         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 11       | 15.12         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 16       | 15.12         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 16       | 15.12         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 12       | 15.12         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 12       | 15.12         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 15       | 15.12         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 15       | 15.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 10       | 15.12         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 14       | 15.12         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 4        | 15.12         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 4        | 15.12         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 9        | 15.12         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 16       | 15.12         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 18       | 15.12         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 19       | 15.12         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 16       | 15.12         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 18       | 15.12         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 19       | 15.12         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 4        | 15.12         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 13       | 15.12         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 13       | 15.12         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 16       | 15.12         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 13       | 15.12         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 13       | 15.12         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 10       | 15.12         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 18       | 15.11         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 2        | 15.11         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 2        | 15.11         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 2        | 15.11         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 2        | 15.11         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 2        | 15.11         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 2        | 15.11         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 8        | 15.11         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 8        | 15.11         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 8        | 15.11         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 8        | 15.11         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 9        | 15.11         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 14       | 15.11         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 14       | 15.11         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 7        | 15.11         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 7        | 15.11         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 7        | 15.11         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 7        | 15.11         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 19       | 15.11         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 19       | 15.11         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 15       | 15.11         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 8        | 15.11         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 8        | 15.11         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 1        | 15.11         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3 | 15       | 15.11         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H   | 7        | 15.11         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 6        | 15.11         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 6        | 15.11         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 20       | 15.11         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 9        | 15.11         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 20       | 15.11         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2 | 16       | 15.11         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3 | 16       | 15.11         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 16       | 15.11         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA  | 20       | 15.11         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 13       | 15.11         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 13       | 15.11         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 9        | 15.11         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 9        | 15.11         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 12       | 15.11         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 14       | 15.11         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 14       | 15.11         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 17       | 15.11         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2 | 1        | 15.11         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3 | 1        | 15.11         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 12       | 15.1          |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1 | 19       | 15.1          |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 19       | 15.1          |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 18       | 15.1          |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H   | 10       | 15.1          |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 20       | 15.1          |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2 | 9        | 15.1          |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3 | 10       | 15.1          |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2 | 18       | 15.1          |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3 | 18       | 15.1          |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG  | 13       | 15.1          |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 9        | 15.1          |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 9        | 15.1          |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H   | 5        | 15.1          |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 6        | 15.1          |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 11       | 15.1          |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H   | 13       | 15.1          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 13       | 15.1          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 13       | 15.1          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 13       | 15.1          |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 7        | 15.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 7        | 15.1          |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 7        | 15.1          |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 4        | 15.1          |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 8        | 15.1          |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 7        | 15.1          |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 8        | 15.1          |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 18       | 15.1          |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 11       | 15.1          |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 17       | 15.09         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 19       | 15.09         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 2        | 15.09         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 18       | 15.09         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 10       | 15.09         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 10       | 15.09         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2  | 14       | 15.09         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 16       | 15.09         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 9        | 15.09         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 9        | 15.09         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 16       | 15.09         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 7        | 15.09         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 13       | 15.09         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 13       | 15.09         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 18       | 15.09         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 18       | 15.09         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 19       | 15.09         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 19       | 15.09         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 14       | 15.09         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 14       | 15.09         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 7        | 15.09         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 7        | 15.09         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 1        | 15.09         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 1        | 15.09         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 3        | 15.09         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 9        | 15.09         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 9        | 15.09         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 9        | 15.09         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 15       | 15.09         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 1        | 15.09         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 12       | 15.09         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 12       | 15.09         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 12       | 15.09         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 6        | 15.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 6        | 15.09         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 4        | 15.09         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 7        | 15.09         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 8        | 15.09         |
| (1,2354) | 1:A:9:PRO:HG2  | 1:A:34:ALA:HA   | 17       | 15.09         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 15       | 15.09         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 15       | 15.09         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 19       | 15.09         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 5        | 15.09         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 5        | 15.09         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 13       | 15.09         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 1        | 15.09         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 11       | 15.09         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 11       | 15.09         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 11       | 15.09         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 10       | 15.09         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 16       | 15.08         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H    | 20       | 15.08         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 13       | 15.08         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 16       | 15.08         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 16       | 15.08         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 1        | 15.08         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 1        | 15.08         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 8        | 15.08         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 4        | 15.08         |
| (1,3331) | 1:A:15:ARG:HB3 | 1:A:22:GLN:HE22 | 15       | 15.08         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 19       | 15.08         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 19       | 15.08         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 13       | 15.08         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 6        | 15.08         |
| (1,2577) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HD2  | 1        | 15.08         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 8        | 15.08         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 8        | 15.08         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 5        | 15.08         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 15       | 15.08         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 15       | 15.08         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 15       | 15.08         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 9        | 15.08         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 9        | 15.08         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 10       | 15.08         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 19       | 15.08         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 3        | 15.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 17       | 15.08         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 17       | 15.08         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 17       | 15.08         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 11       | 15.08         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 9        | 15.08         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 20       | 15.08         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 12       | 15.08         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG2  | 17       | 15.08         |
| (1,2064) | 1:A:8:GLY:H    | 1:A:30:PRO:HG3  | 17       | 15.08         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 1        | 15.08         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 1        | 15.08         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 18       | 15.08         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 19       | 15.08         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 15       | 15.08         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 15       | 15.08         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 17       | 15.08         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2  | 19       | 15.08         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3  | 19       | 15.08         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 5        | 15.08         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 5        | 15.08         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 5        | 15.08         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 14       | 15.08         |
| (1,941)  | 1:A:3:PRO:HG2  | 1:A:33:CYS:HA   | 7        | 15.07         |
| (1,941)  | 1:A:3:PRO:HG3  | 1:A:33:CYS:HA   | 7        | 15.07         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 18       | 15.07         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 18       | 15.07         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 10       | 15.07         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 10       | 15.07         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 4        | 15.07         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 3        | 15.07         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 12       | 15.07         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 12       | 15.07         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 15       | 15.07         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 15       | 15.07         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 20       | 15.07         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 20       | 15.07         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 9        | 15.07         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 9        | 15.07         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 8        | 15.07         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 8        | 15.07         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 6        | 15.07         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 6        | 15.07         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 12       | 15.07         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 12       | 15.07         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA  | 11       | 15.07         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H   | 10       | 15.07         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 12       | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 7        | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 7        | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 8        | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 8        | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 14       | 15.07         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 14       | 15.07         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG  | 3        | 15.07         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 10       | 15.07         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 15       | 15.07         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 1        | 15.07         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 12       | 15.07         |
| (1,2187) | 1:A:9:PRO:HA   | 1:A:33:CYS:HB3 | 17       | 15.07         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 4        | 15.07         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 4        | 15.07         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA  | 3        | 15.07         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 1        | 15.07         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 1        | 15.07         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 10       | 15.07         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 10       | 15.07         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 4        | 15.07         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 4        | 15.07         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 1        | 15.07         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 16       | 15.06         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 16       | 15.06         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H   | 18       | 15.06         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H   | 18       | 15.06         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 1        | 15.06         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2 | 19       | 15.06         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3 | 19       | 15.06         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3 | 3        | 15.06         |
| (1,2973) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HB2 | 3        | 15.06         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2 | 14       | 15.06         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3 | 14       | 15.06         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 5        | 15.06         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 5        | 15.06         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 8        | 15.06         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 8        | 15.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 15       | 15.06         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 15       | 15.06         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 14       | 15.06         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 12       | 15.06         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 12       | 15.06         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 17       | 15.06         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H    | 5        | 15.06         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 16       | 15.06         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 18       | 15.06         |
| (1,1916) | 1:A:6:GLN:HE22 | 1:A:33:CYS:HA   | 7        | 15.06         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 11       | 15.06         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 11       | 15.06         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 12       | 15.06         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 3        | 15.06         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 3        | 15.06         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 14       | 15.06         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 15       | 15.06         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 3        | 15.06         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 13       | 15.06         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 17       | 15.06         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 11       | 15.06         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 11       | 15.06         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 3        | 15.06         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 1        | 15.06         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 19       | 15.05         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 19       | 15.05         |
| (1,934)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:H    | 20       | 15.05         |
| (1,934)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:H    | 20       | 15.05         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 16       | 15.05         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 16       | 15.05         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA2  | 20       | 15.05         |
| (1,816)  | 1:A:3:PRO:HB2  | 1:A:29:GLY:HA3  | 20       | 15.05         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 3        | 15.05         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 3        | 15.05         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 7        | 15.05         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 7        | 15.05         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 10       | 15.05         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 12       | 15.05         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 12       | 15.05         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 16       | 15.05         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 6        | 15.05         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 6        | 15.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 4        | 15.05         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 4        | 15.05         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 4        | 15.05         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 4        | 15.05         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 16       | 15.05         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 16       | 15.05         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2 | 7        | 15.05         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3 | 7        | 15.05         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2 | 13       | 15.05         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3 | 13       | 15.05         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 15       | 15.05         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 15       | 15.05         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 7        | 15.05         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H   | 1        | 15.05         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3 | 20       | 15.05         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG  | 15       | 15.05         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 14       | 15.05         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 12       | 15.05         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 13       | 15.05         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 1        | 15.05         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 13       | 15.05         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA  | 19       | 15.05         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 15       | 15.05         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2 | 15       | 15.05         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3 | 15       | 15.05         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 7        | 15.05         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 12       | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 6        | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 6        | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 7        | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 7        | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 12       | 15.05         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 12       | 15.05         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 13       | 15.05         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2 | 19       | 15.05         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2 | 20       | 15.05         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3 | 20       | 15.05         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 8        | 15.05         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3 | 7        | 15.05         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 12       | 15.05         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 10       | 15.04         |
| (1,743)  | 1:A:2:GLY:HA3  | 1:A:33:CYS:H   | 19       | 15.04         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 5        | 15.04         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 17       | 15.04         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 17       | 15.04         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 4        | 15.04         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 4        | 15.04         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 6        | 15.04         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 16       | 15.04         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 12       | 15.04         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 12       | 15.04         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 12       | 15.04         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3  | 19       | 15.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 9        | 15.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 9        | 15.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 16       | 15.04         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 16       | 15.04         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 17       | 15.04         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 2        | 15.04         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 2        | 15.04         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 3        | 15.04         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 3        | 15.04         |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 11       | 15.04         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 11       | 15.04         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 11       | 15.04         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 12       | 15.04         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 10       | 15.04         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 12       | 15.04         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 17       | 15.04         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 17       | 15.04         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 4        | 15.04         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 4        | 15.04         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 16       | 15.04         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1  | 13       | 15.04         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 11       | 15.04         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 13       | 15.04         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 3        | 15.04         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 3        | 15.04         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 12       | 15.04         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 12       | 15.04         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 10       | 15.04         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 10       | 15.04         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 12       | 15.04         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 7        | 15.04         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 18       | 15.04         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 5        | 15.04         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 11       | 15.04         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 11       | 15.04         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 11       | 15.04         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 14       | 15.04         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 14       | 15.04         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 14       | 15.04         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 8        | 15.04         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 4        | 15.04         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE21 | 7        | 15.04         |
| (1,1026) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HE22 | 7        | 15.04         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 13       | 15.04         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 15       | 15.04         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 4        | 15.03         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 13       | 15.03         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 13       | 15.03         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1  | 18       | 15.03         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1  | 18       | 15.03         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 17       | 15.03         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 17       | 15.03         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 3        | 15.03         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 9        | 15.03         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 9        | 15.03         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 20       | 15.03         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 20       | 15.03         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 4        | 15.03         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 4        | 15.03         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 4        | 15.03         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 4        | 15.03         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 9        | 15.03         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 10       | 15.03         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE2  | 18       | 15.03         |
| (1,2821) | 1:A:11:TRP:HE3 | 1:A:31:LYS:HE3  | 18       | 15.03         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 5        | 15.03         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 12       | 15.03         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 14       | 15.03         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 15       | 15.03         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 15       | 15.03         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 15       | 15.03         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 15       | 15.03         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 4        | 15.03         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 20       | 15.03         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H   | 7        | 15.03         |
| (1,2313) | 1:A:9:PRO:HG2  | 1:A:18:LEU:H   | 6        | 15.03         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 11       | 15.03         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 11       | 15.03         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 12       | 15.03         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H   | 6        | 15.03         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 3        | 15.03         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 3        | 15.03         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 1        | 15.03         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 1        | 15.03         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H   | 9        | 15.03         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 16       | 15.03         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 16       | 15.03         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 16       | 15.03         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2 | 14       | 15.03         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3 | 14       | 15.03         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3 | 3        | 15.03         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 15       | 15.02         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2 | 20       | 15.02         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3 | 20       | 15.02         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2 | 19       | 15.02         |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3 | 19       | 15.02         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1 | 12       | 15.02         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 18       | 15.02         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 3        | 15.02         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 3        | 15.02         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 10       | 15.02         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3 | 6        | 15.02         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 7        | 15.02         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 7        | 15.02         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 20       | 15.02         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 20       | 15.02         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 1        | 15.02         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 1        | 15.02         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2 | 11       | 15.02         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3 | 11       | 15.02         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 18       | 15.02         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 19       | 15.02         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H   | 6        | 15.02         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1 | 1        | 15.02         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2 | 1        | 15.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 5        | 15.02         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 5        | 15.02         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 12       | 15.02         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 18       | 15.02         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 9        | 15.02         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 18       | 15.02         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 19       | 15.02         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 20       | 15.02         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 17       | 15.02         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 13       | 15.02         |
| (1,2186) | 1:A:9:PRO:HA   | 1:A:33:CYS:H    | 17       | 15.02         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 17       | 15.02         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 20       | 15.02         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 13       | 15.02         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 2        | 15.02         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 2        | 15.02         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 10       | 15.02         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 20       | 15.02         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 8        | 15.02         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 17       | 15.02         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 1        | 15.02         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 3        | 15.01         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 19       | 15.01         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 19       | 15.01         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 19       | 15.01         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 5        | 15.01         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 5        | 15.01         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 8        | 15.01         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 16       | 15.01         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 16       | 15.01         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 11       | 15.01         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 11       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 9        | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 9        | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 16       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 16       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 18       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 18       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 19       | 15.01         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 19       | 15.01         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 2        | 15.01         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 2        | 15.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 16       | 15.01         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 16       | 15.01         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 18       | 15.01         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 18       | 15.01         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 19       | 15.01         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 19       | 15.01         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 8        | 15.01         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 12       | 15.01         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 16       | 15.01         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 3        | 15.01         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 4        | 15.01         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 18       | 15.01         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 18       | 15.01         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 14       | 15.01         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 14       | 15.01         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 17       | 15.01         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 11       | 15.01         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 11       | 15.01         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 19       | 15.01         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 1        | 15.01         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 18       | 15.01         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 18       | 15.01         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 20       | 15.01         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 20       | 15.01         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 7        | 15.01         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 18       | 15.01         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 18       | 15.01         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 15       | 15.01         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 15       | 15.01         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 9        | 15.01         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 8        | 15.01         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 6        | 15.01         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 6        | 15.0          |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 3        | 15.0          |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 17       | 15.0          |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1  | 9        | 15.0          |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1  | 12       | 15.0          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 5        | 15.0          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 5        | 15.0          |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 6        | 15.0          |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 6        | 15.0          |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 3        | 15.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 15       | 15.0          |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 15       | 15.0          |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 5        | 15.0          |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 5        | 15.0          |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 15       | 15.0          |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 15       | 15.0          |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 15       | 15.0          |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 15       | 15.0          |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 15       | 15.0          |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 20       | 15.0          |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 20       | 15.0          |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 20       | 15.0          |
| (1,2843) | 1:A:11:TRP:HE1 | 1:A:16:GLY:H    | 14       | 15.0          |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 7        | 15.0          |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 2        | 15.0          |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 20       | 15.0          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 14       | 15.0          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 14       | 15.0          |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 14       | 15.0          |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 19       | 15.0          |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 19       | 15.0          |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 15       | 15.0          |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 9        | 15.0          |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 16       | 15.0          |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 11       | 15.0          |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 13       | 15.0          |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 16       | 15.0          |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 2        | 15.0          |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 6        | 15.0          |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 13       | 15.0          |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 17       | 15.0          |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 17       | 15.0          |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2  | 9        | 15.0          |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3  | 9        | 15.0          |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 10       | 14.99         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 10       | 14.99         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 5        | 14.99         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 5        | 14.99         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 5        | 14.99         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 5        | 14.99         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 5        | 14.99         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 5        | 14.99         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2 | 11       | 14.99         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3 | 11       | 14.99         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2 | 18       | 14.99         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 7        | 14.99         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 16       | 14.99         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3 | 7        | 14.99         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2 | 3        | 14.99         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 6        | 14.99         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 4        | 14.99         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2 | 5        | 14.99         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 8        | 14.99         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3 | 12       | 14.99         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 18       | 14.99         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H   | 5        | 14.99         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 20       | 14.99         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 7        | 14.99         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 7        | 14.99         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 6        | 14.99         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 6        | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 5        | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 5        | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 10       | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 10       | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 18       | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 18       | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 19       | 14.99         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 19       | 14.99         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 8        | 14.99         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H   | 4        | 14.99         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 7        | 14.99         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 17       | 14.99         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 1        | 14.99         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2 | 4        | 14.99         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3 | 4        | 14.99         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H   | 6        | 14.99         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3 | 14       | 14.99         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 7        | 14.99         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 7        | 14.99         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 7        | 14.99         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3 | 6        | 14.99         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 9        | 14.99         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3 | 5        | 14.98         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2 | 2        | 14.98         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2 | 2        | 14.98         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE  | 9        | 14.98         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1 | 3        | 14.98         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 3        | 14.98         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 17       | 14.98         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 2        | 14.98         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 2        | 14.98         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 17       | 14.98         |
| (1,3129) | 1:A:13:GLY:H   | 1:A:31:LYS:HB3 | 18       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 16       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 16       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 18       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 18       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2 | 19       | 14.98         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3 | 19       | 14.98         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA  | 5        | 14.98         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 2        | 14.98         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 3        | 14.98         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 11       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 16       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 16       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 18       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 18       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 20       | 14.98         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 20       | 14.98         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 9        | 14.98         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 16       | 14.98         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 18       | 14.98         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 20       | 14.98         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2 | 12       | 14.98         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 6        | 14.98         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 6        | 14.98         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 17       | 14.98         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA  | 12       | 14.98         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2 | 8        | 14.98         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3 | 8        | 14.98         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 9        | 14.98         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 15       | 14.98         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 11       | 14.98         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 14       | 14.98         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2 | 18       | 14.98         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 8        | 14.98         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 9        | 14.98         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 20       | 14.98         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 4        | 14.97         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 16       | 14.97         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 16       | 14.97         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 18       | 14.97         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2  | 4        | 14.97         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 11       | 14.97         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 14       | 14.97         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 10       | 14.97         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 10       | 14.97         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 2        | 14.97         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 4        | 14.97         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 11       | 14.97         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 11       | 14.97         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB2  | 20       | 14.97         |
| (1,2920) | 1:A:11:TRP:HZ3 | 1:A:28:SER:HB3  | 20       | 14.97         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 9        | 14.97         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 9        | 14.97         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 5        | 14.97         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 11       | 14.97         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 11       | 14.97         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 8        | 14.97         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 5        | 14.97         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 12       | 14.97         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 19       | 14.97         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 8        | 14.97         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 13       | 14.97         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 13       | 14.97         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 14       | 14.97         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 14       | 14.97         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA2  | 16       | 14.97         |
| (1,1841) | 1:A:6:GLN:HE21 | 1:A:29:GLY:HA3  | 16       | 14.97         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 5        | 14.97         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 4        | 14.97         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 17       | 14.97         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD2  | 8        | 14.96         |
| (1,986)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HD3  | 8        | 14.96         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 2        | 14.96         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 2        | 14.96         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 3        | 14.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 3        | 14.96         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 3        | 14.96         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 4        | 14.96         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 9        | 14.96         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 9        | 14.96         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 11       | 14.96         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 11       | 14.96         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 16       | 14.96         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 16       | 14.96         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 3        | 14.96         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 3        | 14.96         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 10       | 14.96         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 1        | 14.96         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 1        | 14.96         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 10       | 14.96         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 14       | 14.96         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 3        | 14.96         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 3        | 14.96         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 3        | 14.96         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 6        | 14.96         |
| (1,2532) | 1:A:10:GLY:HA3 | 1:A:18:LEU:H    | 17       | 14.96         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 5        | 14.96         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 1        | 14.96         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 14       | 14.96         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 7        | 14.96         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 15       | 14.96         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 15       | 14.96         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 7        | 14.96         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 7        | 14.96         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 7        | 14.96         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 8        | 14.96         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 20       | 14.96         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 8        | 14.96         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 2        | 14.96         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 2        | 14.96         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 5        | 14.96         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 15       | 14.96         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 1        | 14.96         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 13       | 14.96         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 14       | 14.96         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 1        | 14.96         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 6        | 14.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 10       | 14.96         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 11       | 14.96         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 12       | 14.96         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 10       | 14.95         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 10       | 14.95         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 13       | 14.95         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 13       | 14.95         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 13       | 14.95         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 13       | 14.95         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 13       | 14.95         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 8        | 14.95         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 15       | 14.95         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 18       | 14.95         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 18       | 14.95         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 19       | 14.95         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 19       | 14.95         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 10       | 14.95         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 20       | 14.95         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 20       | 14.95         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 8        | 14.95         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 18       | 14.95         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 12       | 14.95         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 13       | 14.95         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 13       | 14.95         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 6        | 14.95         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 6        | 14.95         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 11       | 14.95         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 1        | 14.95         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 1        | 14.95         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 2        | 14.95         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 2        | 14.95         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 8        | 14.95         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 8        | 14.95         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 5        | 14.95         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 5        | 14.95         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 18       | 14.95         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 19       | 14.95         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 3        | 14.95         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 9        | 14.95         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 17       | 14.95         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 17       | 14.95         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 11       | 14.95         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 4        | 14.95         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 4        | 14.95         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 13       | 14.95         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 7        | 14.95         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 9        | 14.94         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 9        | 14.94         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 11       | 14.94         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 2        | 14.94         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 2        | 14.94         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 20       | 14.94         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 20       | 14.94         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 17       | 14.94         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 13       | 14.94         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 13       | 14.94         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 7        | 14.94         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 7        | 14.94         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 13       | 14.94         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 13       | 14.94         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 9        | 14.94         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 6        | 14.94         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 6        | 14.94         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 6        | 14.94         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 2        | 14.94         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 2        | 14.94         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 2        | 14.94         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 8        | 14.94         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 7        | 14.94         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 3        | 14.94         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 6        | 14.94         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 20       | 14.94         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 20       | 14.94         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 17       | 14.94         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 4        | 14.94         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 10       | 14.94         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 6        | 14.94         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 6        | 14.94         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 4        | 14.94         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 10       | 14.94         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 2        | 14.94         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 12       | 14.94         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 12       | 14.94         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 20       | 14.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 16       | 14.94         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 7        | 14.93         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 7        | 14.93         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 1        | 14.93         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 1        | 14.93         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 3        | 14.93         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 3        | 14.93         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 14       | 14.93         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 7        | 14.93         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 8        | 14.93         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 4        | 14.93         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 4        | 14.93         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 5        | 14.93         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 5        | 14.93         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 15       | 14.93         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 17       | 14.93         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 20       | 14.93         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 20       | 14.93         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3  | 20       | 14.93         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 5        | 14.93         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 3        | 14.93         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 3        | 14.93         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 3        | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 10       | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 10       | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 10       | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 12       | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 12       | 14.93         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 12       | 14.93         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 5        | 14.93         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 5        | 14.93         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 4        | 14.93         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 4        | 14.93         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 18       | 14.93         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 15       | 14.93         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 11       | 14.93         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 3        | 14.93         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 8        | 14.93         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 16       | 14.93         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 12       | 14.93         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 6        | 14.93         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 6        | 14.93         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 17       | 14.93         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 13       | 14.93         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 18       | 14.93         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H   | 11       | 14.92         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 6        | 14.92         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2 | 9        | 14.92         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1 | 18       | 14.92         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 18       | 14.92         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 15       | 14.92         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 2        | 14.92         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 2        | 14.92         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 3        | 14.92         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 3        | 14.92         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 3        | 14.92         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2 | 14       | 14.92         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3 | 14       | 14.92         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3 | 3        | 14.92         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 14       | 14.92         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 14       | 14.92         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 1        | 14.92         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2 | 12       | 14.92         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3 | 12       | 14.92         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 5        | 14.92         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 5        | 14.92         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2 | 8        | 14.92         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 7        | 14.92         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 18       | 14.92         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 19       | 14.92         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG  | 11       | 14.92         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 13       | 14.92         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 10       | 14.92         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2 | 3        | 14.92         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3 | 3        | 14.92         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H   | 13       | 14.92         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 8        | 14.92         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 8        | 14.92         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2 | 20       | 14.92         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H   | 2        | 14.92         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 12       | 14.92         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H   | 5        | 14.92         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H   | 11       | 14.92         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3 | 2        | 14.92         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 7        | 14.92         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 19       | 14.92         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H   | 9        | 14.91         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 1        | 14.91         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 1        | 14.91         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 1        | 14.91         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 1        | 14.91         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 12       | 14.91         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 12       | 14.91         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3 | 20       | 14.91         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2 | 17       | 14.91         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 2        | 14.91         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 2        | 14.91         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 5        | 14.91         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2 | 19       | 14.91         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3 | 19       | 14.91         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 12       | 14.91         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 12       | 14.91         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H   | 11       | 14.91         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 5        | 14.91         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 5        | 14.91         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 5        | 14.91         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 17       | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 2        | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 2        | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 2        | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1 | 4        | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2 | 4        | 14.91         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3 | 4        | 14.91         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 8        | 14.91         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 20       | 14.91         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 9        | 14.91         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 9        | 14.91         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H   | 11       | 14.91         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H   | 12       | 14.91         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 17       | 14.91         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA  | 2        | 14.91         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 5        | 14.91         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2 | 3        | 14.91         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3 | 3        | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 5        | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 5        | 14.91         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 16       | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 16       | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 18       | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 18       | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2  | 19       | 14.91         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3  | 19       | 14.91         |
| (1,1879) | 1:A:6:GLN:HE22 | 1:A:16:GLY:HA2  | 9        | 14.91         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 1        | 14.91         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 1        | 14.91         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 15       | 14.91         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 15       | 14.91         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 15       | 14.91         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 15       | 14.91         |
| (1,1812) | 1:A:6:GLN:HE21 | 1:A:17:GLY:H    | 14       | 14.91         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 7        | 14.91         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 2        | 14.91         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB2  | 1        | 14.91         |
| (1,1391) | 1:A:4:ASN:HD22 | 1:A:35:HIS:HB3  | 1        | 14.91         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 11       | 14.91         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 11       | 14.91         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 1        | 14.91         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 1        | 14.91         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 7        | 14.91         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 5        | 14.91         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 5        | 14.91         |
| (1,1023) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HG2  | 10       | 14.91         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 2        | 14.9          |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG2  | 20       | 14.9          |
| (1,765)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HG3  | 20       | 14.9          |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 16       | 14.9          |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 4        | 14.9          |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 18       | 14.9          |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 1        | 14.9          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 5        | 14.9          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 5        | 14.9          |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 14       | 14.9          |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 14       | 14.9          |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 11       | 14.9          |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 5        | 14.9          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 18       | 14.9          |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 18       | 14.9          |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 11       | 14.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 12       | 14.9          |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2  | 13       | 14.9          |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3  | 13       | 14.9          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 8        | 14.9          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 8        | 14.9          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 6        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 5        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 5        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 5        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 6        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 6        | 14.9          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 6        | 14.9          |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 15       | 14.9          |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 12       | 14.9          |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 13       | 14.9          |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 16       | 14.9          |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 1        | 14.9          |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 9        | 14.9          |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 1        | 14.9          |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 11       | 14.9          |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 12       | 14.9          |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 12       | 14.9          |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 10       | 14.9          |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 10       | 14.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 15       | 14.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 15       | 14.9          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 2        | 14.9          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 2        | 14.9          |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 15       | 14.9          |
| (1,1176) | 1:A:4:ASN:HB2  | 1:A:35:HIS:H    | 20       | 14.9          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 18       | 14.9          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 18       | 14.9          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 18       | 14.9          |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 1        | 14.9          |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 15       | 14.9          |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 11       | 14.89         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 12       | 14.89         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 6        | 14.89         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 6        | 14.89         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 12       | 14.89         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 12       | 14.89         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 4        | 14.89         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 4        | 14.89         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 4        | 14.89         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1 | 6        | 14.89         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2 | 6        | 14.89         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3 | 6        | 14.89         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 5        | 14.89         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2 | 17       | 14.89         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 13       | 14.89         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 16       | 14.89         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 1        | 14.89         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 11       | 14.89         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 17       | 14.89         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 11       | 14.89         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 3        | 14.89         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 12       | 14.89         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA2 | 10       | 14.89         |
| (1,1903) | 1:A:6:GLN:HE22 | 1:A:29:GLY:HA3 | 10       | 14.89         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 11       | 14.89         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 11       | 14.89         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA  | 8        | 14.89         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3 | 20       | 14.89         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 19       | 14.89         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 13       | 14.89         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 18       | 14.89         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 19       | 14.89         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 20       | 14.89         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2 | 2        | 14.89         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3 | 2        | 14.89         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 2        | 14.89         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 2        | 14.89         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 5        | 14.89         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 5        | 14.89         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB2 | 20       | 14.89         |
| (1,1308) | 1:A:4:ASN:HD21 | 1:A:33:CYS:HB3 | 20       | 14.89         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2 | 20       | 14.89         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H   | 20       | 14.89         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 9        | 14.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 19       | 14.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 19       | 14.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 19       | 14.89         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 7        | 14.88         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3 | 5        | 14.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 11       | 14.88         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 1        | 14.88         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 11       | 14.88         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 11       | 14.88         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 2        | 14.88         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 2        | 14.88         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 5        | 14.88         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 16       | 14.88         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 16       | 14.88         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 1        | 14.88         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 8        | 14.88         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 8        | 14.88         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 1        | 14.88         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 11       | 14.88         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 17       | 14.88         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 1        | 14.88         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD2  | 8        | 14.88         |
| (1,2608) | 1:A:11:TRP:H   | 1:A:31:LYS:HD3  | 8        | 14.88         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 9        | 14.88         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 4        | 14.88         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 4        | 14.88         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 2        | 14.88         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 13       | 14.88         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 20       | 14.88         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 4        | 14.88         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 6        | 14.88         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 11       | 14.88         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 18       | 14.88         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 20       | 14.88         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 17       | 14.88         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 14       | 14.88         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 14       | 14.88         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 14       | 14.88         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 14       | 14.88         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 18       | 14.88         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 18       | 14.88         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2  | 11       | 14.88         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 17       | 14.88         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 18       | 14.87         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 18       | 14.87         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 18       | 14.87         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 17       | 14.87         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 17       | 14.87         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 1        | 14.87         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 6        | 14.87         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 8        | 14.87         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 8        | 14.87         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 20       | 14.87         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 20       | 14.87         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 16       | 14.87         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 16       | 14.87         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 20       | 14.87         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 20       | 14.87         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 20       | 14.87         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 3        | 14.87         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 3        | 14.87         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 14       | 14.87         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 14       | 14.87         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 14       | 14.87         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 18       | 14.87         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 20       | 14.87         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 3        | 14.87         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 19       | 14.87         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 19       | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 1        | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 1        | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 1        | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 11       | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 11       | 14.87         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 11       | 14.87         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 18       | 14.87         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 19       | 14.87         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 12       | 14.87         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 12       | 14.87         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 13       | 14.87         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 9        | 14.87         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 2        | 14.87         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 2        | 14.87         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 11       | 14.87         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 11       | 14.87         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 3        | 14.87         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 6        | 14.87         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 6        | 14.87         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 3        | 14.87         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 17       | 14.87         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 2        | 14.87         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 10       | 14.87         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 13       | 14.87         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 20       | 14.87         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 3        | 14.87         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 9        | 14.87         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 14       | 14.87         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 12       | 14.87         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 12       | 14.87         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 13       | 14.87         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 13       | 14.87         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 5        | 14.87         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 6        | 14.86         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 6        | 14.86         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 5        | 14.86         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 5        | 14.86         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 18       | 14.86         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE1  | 14       | 14.86         |
| (1,3466) | 1:A:16:GLY:H   | 1:A:23:TYR:HE2  | 14       | 14.86         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 6        | 14.86         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 6        | 14.86         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 10       | 14.86         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 10       | 14.86         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 3        | 14.86         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 16       | 14.86         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 12       | 14.86         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 9        | 14.86         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 16       | 14.86         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 19       | 14.86         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 9        | 14.86         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 1        | 14.86         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 15       | 14.86         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 20       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 13       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 13       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 13       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 15       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 15       | 14.86         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 15       | 14.86         |
| (1,2568) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HB3  | 17       | 14.86         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 16       | 14.86         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB1  | 8        | 14.86         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB2  | 8        | 14.86         |
| (1,2520) | 1:A:10:GLY:HA2 | 1:A:34:ALA:HB3  | 8        | 14.86         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 4        | 14.86         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 8        | 14.86         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 8        | 14.86         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 1        | 14.86         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 6        | 14.86         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 10       | 14.86         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 12       | 14.86         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 12       | 14.86         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 9        | 14.86         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 16       | 14.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 4        | 14.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 4        | 14.86         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 4        | 14.86         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 16       | 14.86         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 16       | 14.86         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 16       | 14.86         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 14       | 14.86         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 7        | 14.86         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 7        | 14.86         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 10       | 14.86         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 8        | 14.86         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 8        | 14.86         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 8        | 14.86         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 4        | 14.86         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 13       | 14.85         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 13       | 14.85         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ1  | 8        | 14.85         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ2  | 8        | 14.85         |
| (1,874)  | 1:A:3:PRO:HB3  | 1:A:31:LYS:HZ3  | 8        | 14.85         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 2        | 14.85         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 20       | 14.85         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 20       | 14.85         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 11       | 14.85         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 11       | 14.85         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 11       | 14.85         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1  | 15       | 14.85         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 9        | 14.85         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 16       | 14.85         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 13       | 14.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 13       | 14.85         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 17       | 14.85         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 20       | 14.85         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 20       | 14.85         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 13       | 14.85         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 14       | 14.85         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 4        | 14.85         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 4        | 14.85         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 4        | 14.85         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 16       | 14.85         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 16       | 14.85         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 6        | 14.85         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 4        | 14.85         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 2        | 14.85         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 18       | 14.85         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 19       | 14.85         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 11       | 14.85         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 1        | 14.85         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG   | 20       | 14.85         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 6        | 14.85         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 9        | 14.85         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 14       | 14.85         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H    | 3        | 14.85         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 3        | 14.85         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 6        | 14.85         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 14       | 14.85         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 12       | 14.85         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 9        | 14.85         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 9        | 14.85         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 9        | 14.85         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 8        | 14.85         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 9        | 14.85         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 13       | 14.85         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 13       | 14.85         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB1  | 15       | 14.85         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB2  | 15       | 14.85         |
| (1,1310) | 1:A:4:ASN:HD21 | 1:A:34:ALA:HB3  | 15       | 14.85         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 7        | 14.85         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 8        | 14.85         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE21 | 16       | 14.84         |
| (1,761)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HE22 | 16       | 14.84         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 2        | 14.84         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1  | 10       | 14.84         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 12       | 14.84         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 18       | 14.84         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 18       | 14.84         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 2        | 14.84         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 10       | 14.84         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 6        | 14.84         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 4        | 14.84         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 11       | 14.84         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 13       | 14.84         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 13       | 14.84         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 13       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 9        | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 9        | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 18       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 18       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 19       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 19       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2  | 20       | 14.84         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3  | 20       | 14.84         |
| (1,2825) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HA   | 7        | 14.84         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 16       | 14.84         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 12       | 14.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 1        | 14.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 1        | 14.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 1        | 14.84         |
| (1,2350) | 1:A:9:PRO:HG2  | 1:A:33:CYS:H    | 17       | 14.84         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 18       | 14.84         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 20       | 14.84         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 5        | 14.84         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 8        | 14.84         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 15       | 14.84         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 15       | 14.84         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 12       | 14.84         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 12       | 14.84         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 17       | 14.84         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 3        | 14.83         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 15       | 14.83         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 16       | 14.83         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 13       | 14.83         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 13       | 14.83         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 10       | 14.83         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 10       | 14.83         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE1 | 20       | 14.83         |
| (1,3534) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HE2 | 20       | 14.83         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 18       | 14.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 5        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 5        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 5        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 5        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 6        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 6        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 6        | 14.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 6        | 14.83         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1 | 6        | 14.83         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2 | 6        | 14.83         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 6        | 14.83         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 6        | 14.83         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2 | 19       | 14.83         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3 | 19       | 14.83         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2 | 7        | 14.83         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3 | 7        | 14.83         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2 | 20       | 14.83         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3 | 20       | 14.83         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA  | 8        | 14.83         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1 | 2        | 14.83         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2 | 2        | 14.83         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3 | 2        | 14.83         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB2 | 7        | 14.83         |
| (1,2826) | 1:A:11:TRP:HE3 | 1:A:33:CYS:HB3 | 7        | 14.83         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H   | 4        | 14.83         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 8        | 14.83         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 8        | 14.83         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H   | 15       | 14.83         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2 | 16       | 14.83         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 18       | 14.83         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 10       | 14.83         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 5        | 14.83         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 10       | 14.83         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2 | 3        | 14.83         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3 | 3        | 14.83         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2 | 6        | 14.83         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3 | 6        | 14.83         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA  | 20       | 14.83         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 1        | 14.83         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 2        | 14.83         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA  | 4        | 14.83         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 8        | 14.83         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2 | 3        | 14.83         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 14       | 14.83         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 14       | 14.83         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3 | 8        | 14.83         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3 | 3        | 14.83         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 13       | 14.82         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 13       | 14.82         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 13       | 14.82         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 13       | 14.82         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 13       | 14.82         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 13       | 14.82         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2 | 6        | 14.82         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2 | 6        | 14.82         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H   | 8        | 14.82         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 6        | 14.82         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 6        | 14.82         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 6        | 14.82         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 6        | 14.82         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 6        | 14.82         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 2        | 14.82         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 4        | 14.82         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 17       | 14.82         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3 | 14       | 14.82         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB2 | 17       | 14.82         |
| (1,2891) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HB3 | 17       | 14.82         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2 | 3        | 14.82         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3 | 3        | 14.82         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2 | 14       | 14.82         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3 | 14       | 14.82         |
| (1,2534) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HG  | 7        | 14.82         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG  | 16       | 14.82         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 1        | 14.82         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 9        | 14.82         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 16       | 14.82         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 16       | 14.82         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2 | 20       | 14.82         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3 | 20       | 14.82         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA  | 16       | 14.82         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 1        | 14.82         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 11       | 14.82         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 17       | 14.82         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 9        | 14.82         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 9        | 14.82         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 9        | 14.82         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 11       | 14.82         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 1        | 14.81         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 14       | 14.81         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 11       | 14.81         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 15       | 14.81         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 9        | 14.81         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 9        | 14.81         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 5        | 14.81         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 5        | 14.81         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 5        | 14.81         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 14       | 14.81         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 14       | 14.81         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 6        | 14.81         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 8        | 14.81         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 8        | 14.81         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA2  | 17       | 14.81         |
| (1,2908) | 1:A:11:TRP:HZ3 | 1:A:17:GLY:HA3  | 17       | 14.81         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 13       | 14.81         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 14       | 14.81         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 17       | 14.81         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 4        | 14.81         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 4        | 14.81         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 12       | 14.81         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 14       | 14.81         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 14       | 14.81         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 14       | 14.81         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 9        | 14.81         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 18       | 14.81         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 19       | 14.81         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 20       | 14.81         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 19       | 14.81         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 10       | 14.81         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 10       | 14.81         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 8        | 14.81         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 8        | 14.81         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 18       | 14.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 18       | 14.81         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 19       | 14.81         |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 19       | 14.81         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 18       | 14.81         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 19       | 14.81         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 14       | 14.81         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 14       | 14.81         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 6        | 14.81         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ1  | 18       | 14.81         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ2  | 18       | 14.81         |
| (1,1042) | 1:A:3:PRO:HD3  | 1:A:31:LYS:HZ3  | 18       | 14.81         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 3        | 14.8          |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 14       | 14.8          |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 14       | 14.8          |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 5        | 14.8          |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 5        | 14.8          |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 15       | 14.8          |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 15       | 14.8          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 13       | 14.8          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 13       | 14.8          |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 12       | 14.8          |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 12       | 14.8          |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 12       | 14.8          |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 17       | 14.8          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 2        | 14.8          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 2        | 14.8          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 6        | 14.8          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 6        | 14.8          |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 20       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 18       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 18       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 19       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 19       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 20       | 14.8          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 20       | 14.8          |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 13       | 14.8          |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB2  | 7        | 14.8          |
| (1,1855) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HB3  | 7        | 14.8          |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 16       | 14.8          |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 9        | 14.8          |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 13       | 14.8          |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 18       | 14.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 12       | 14.8          |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 14       | 14.79         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 2        | 14.79         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 2        | 14.79         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 19       | 14.79         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 4        | 14.79         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE2  | 18       | 14.79         |
| (1,3444) | 1:A:15:ARG:HE  | 1:A:31:LYS:HE3  | 18       | 14.79         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 2        | 14.79         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 2        | 14.79         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 10       | 14.79         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 17       | 14.79         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 17       | 14.79         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 17       | 14.79         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 5        | 14.79         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 4        | 14.79         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 4        | 14.79         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 17       | 14.79         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 3        | 14.79         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 2        | 14.79         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 7        | 14.79         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 8        | 14.79         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 13       | 14.79         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 2        | 14.79         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 2        | 14.79         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 16       | 14.79         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 16       | 14.79         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 13       | 14.79         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 13       | 14.79         |
| (1,1786) | 1:A:6:GLN:HG3  | 1:A:34:ALA:HA   | 7        | 14.79         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 2        | 14.79         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 10       | 14.79         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 10       | 14.79         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 6        | 14.79         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 19       | 14.79         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 18       | 14.79         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 20       | 14.79         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 18       | 14.79         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 19       | 14.79         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 10       | 14.78         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 5        | 14.78         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 5        | 14.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 13       | 14.78         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 13       | 14.78         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 19       | 14.78         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 19       | 14.78         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 19       | 14.78         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 18       | 14.78         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 17       | 14.78         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 17       | 14.78         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 5        | 14.78         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 5        | 14.78         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 5        | 14.78         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 5        | 14.78         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 6        | 14.78         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA2  | 17       | 14.78         |
| (1,2846) | 1:A:11:TRP:HE1 | 1:A:17:GLY:HA3  | 17       | 14.78         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 4        | 14.78         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 2        | 14.78         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 10       | 14.78         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 9        | 14.78         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 18       | 14.78         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 19       | 14.78         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 8        | 14.78         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 15       | 14.78         |
| (1,2314) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HA   | 17       | 14.78         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 6        | 14.78         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 11       | 14.78         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 8        | 14.78         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 6        | 14.78         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 6        | 14.78         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 13       | 14.78         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 13       | 14.78         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 1        | 14.78         |
| (1,1854) | 1:A:6:GLN:HE21 | 1:A:33:CYS:HA   | 7        | 14.78         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 17       | 14.78         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 6        | 14.78         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 11       | 14.78         |
| (1,1674) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HA   | 15       | 14.78         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 14       | 14.78         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 1        | 14.78         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 16       | 14.78         |
| (1,1099) | 1:A:4:ASN:H    | 1:A:29:GLY:HA3  | 19       | 14.78         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 17       | 14.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 17       | 14.77         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 17       | 14.77         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 17       | 14.77         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 17       | 14.77         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 17       | 14.77         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 4        | 14.77         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 4        | 14.77         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 4        | 14.77         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 4        | 14.77         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 13       | 14.77         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 5        | 14.77         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 2        | 14.77         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 2        | 14.77         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 8        | 14.77         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 12       | 14.77         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 7        | 14.77         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 7        | 14.77         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 10       | 14.77         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 13       | 14.77         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 13       | 14.77         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 5        | 14.77         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 16       | 14.77         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 16       | 14.77         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG2  | 14       | 14.77         |
| (1,2884) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HG3  | 14       | 14.77         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 2        | 14.77         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 10       | 14.77         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 3        | 14.77         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 4        | 14.77         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 5        | 14.77         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 5        | 14.77         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 9        | 14.77         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 9        | 14.77         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 9        | 14.77         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 1        | 14.77         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 7        | 14.77         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 7        | 14.77         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 2        | 14.77         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 14       | 14.77         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 3        | 14.77         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 6        | 14.77         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 3        | 14.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 3        | 14.77         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 11       | 14.77         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 11       | 14.77         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 3        | 14.77         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 4        | 14.77         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 16       | 14.77         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 12       | 14.77         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 15       | 14.76         |
| (1,760)  | 1:A:3:PRO:HA   | 1:A:22:GLN:HG3  | 16       | 14.76         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 16       | 14.76         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 16       | 14.76         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 11       | 14.76         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 20       | 14.76         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 20       | 14.76         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 3        | 14.76         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 3        | 14.76         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 3        | 14.76         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 3        | 14.76         |
| (1,3283) | 1:A:15:ARG:HA  | 1:A:22:GLN:HE22 | 19       | 14.76         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 5        | 14.76         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 14       | 14.76         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 2        | 14.76         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB2  | 17       | 14.76         |
| (1,2874) | 1:A:11:TRP:HE1 | 1:A:28:SER:HB3  | 17       | 14.76         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 4        | 14.76         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 4        | 14.76         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 11       | 14.76         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 11       | 14.76         |
| (1,2705) | 1:A:11:TRP:HB3 | 1:A:29:GLY:H    | 16       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 18       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 18       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 18       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 19       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 19       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 19       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 20       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 20       | 14.76         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 20       | 14.76         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 11       | 14.76         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 11       | 14.76         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 1        | 14.76         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 14       | 14.75         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 5        | 14.75         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 14       | 14.75         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 13       | 14.75         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 13       | 14.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 10       | 14.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 10       | 14.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 14       | 14.75         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 14       | 14.75         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 3        | 14.75         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 17       | 14.75         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 17       | 14.75         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 10       | 14.75         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 10       | 14.75         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 4        | 14.75         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG2  | 20       | 14.75         |
| (1,3046) | 1:A:12:GLY:HA2 | 1:A:31:LYS:HG3  | 20       | 14.75         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 1        | 14.75         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 10       | 14.75         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 4        | 14.75         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 20       | 14.75         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 15       | 14.75         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 15       | 14.75         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 15       | 14.75         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 13       | 14.75         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 20       | 14.75         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 20       | 14.75         |
| (1,2497) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG2  | 17       | 14.75         |
| (1,2492) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HG   | 7        | 14.75         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 12       | 14.75         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 17       | 14.75         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 7        | 14.75         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 14       | 14.75         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 13       | 14.75         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 20       | 14.75         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 13       | 14.75         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 13       | 14.75         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 5        | 14.74         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 5        | 14.74         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 5        | 14.74         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 5        | 14.74         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 9        | 14.74         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 9        | 14.74         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H   | 20       | 14.74         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2 | 4        | 14.74         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3 | 4        | 14.74         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H   | 20       | 14.74         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1 | 11       | 14.74         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2 | 11       | 14.74         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1 | 19       | 14.74         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3 | 7        | 14.74         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3 | 9        | 14.74         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1 | 8        | 14.74         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 8        | 14.74         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3 | 3        | 14.74         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3 | 4        | 14.74         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 2        | 14.74         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2 | 2        | 14.74         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3 | 2        | 14.74         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 3        | 14.74         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA  | 18       | 14.74         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA  | 3        | 14.74         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA  | 18       | 14.74         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 1        | 14.74         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 18       | 14.74         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 18       | 14.74         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 19       | 14.74         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 19       | 14.74         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 19       | 14.74         |
| (1,2409) | 1:A:9:PRO:HG3  | 1:A:32:TYR:H   | 17       | 14.74         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2 | 10       | 14.74         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2 | 9        | 14.74         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3 | 9        | 14.74         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 4        | 14.74         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 16       | 14.74         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H   | 19       | 14.74         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2 | 16       | 14.74         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3 | 16       | 14.74         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA  | 10       | 14.74         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA  | 5        | 14.74         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 1        | 14.74         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 3        | 14.74         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 3        | 14.74         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 3        | 14.74         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2 | 13       | 14.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 15       | 14.74         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 9        | 14.74         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 15       | 14.74         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 6        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 1        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 1        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 1        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 1        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 1        | 14.73         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 1        | 14.73         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 18       | 14.73         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 18       | 14.73         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 2        | 14.73         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 2        | 14.73         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 15       | 14.73         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 2        | 14.73         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 3        | 14.73         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 8        | 14.73         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 8        | 14.73         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 11       | 14.73         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 15       | 14.73         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2  | 10       | 14.73         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 8        | 14.73         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 7        | 14.73         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 9        | 14.73         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 15       | 14.73         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 16       | 14.73         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 19       | 14.73         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 1        | 14.73         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 9        | 14.73         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 13       | 14.73         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 8        | 14.73         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 8        | 14.73         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 8        | 14.73         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 6        | 14.73         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 6        | 14.73         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 16       | 14.73         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 16       | 14.73         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 4        | 14.73         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 16       | 14.73         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 5        | 14.73         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 20       | 14.73         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 20       | 14.73         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 18       | 14.73         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 6        | 14.73         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 3        | 14.73         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 13       | 14.73         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 4        | 14.73         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 5        | 14.73         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 7        | 14.73         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 7        | 14.73         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 10       | 14.73         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 13       | 14.73         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 17       | 14.73         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 6        | 14.73         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 6        | 14.73         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 1        | 14.73         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 4        | 14.72         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 10       | 14.72         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 3        | 14.72         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 16       | 14.72         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 18       | 14.72         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 20       | 14.72         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 20       | 14.72         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 20       | 14.72         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 14       | 14.72         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 5        | 14.72         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 8        | 14.72         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 8        | 14.72         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 15       | 14.72         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 15       | 14.72         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 13       | 14.72         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA2  | 9        | 14.72         |
| (1,2965) | 1:A:11:TRP:HH2 | 1:A:16:GLY:HA3  | 9        | 14.72         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 15       | 14.72         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 5        | 14.72         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 5        | 14.72         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 5        | 14.72         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 15       | 14.72         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 15       | 14.72         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 16       | 14.72         |
| (1,1728) | 1:A:6:GLN:HG2  | 1:A:29:GLY:H    | 20       | 14.72         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 16       | 14.72         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 16       | 14.72         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 16       | 14.72         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2 | 3        | 14.72         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2 | 12       | 14.72         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H   | 11       | 14.72         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2 | 4        | 14.72         |
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3 | 18       | 14.72         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA  | 4        | 14.72         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3 | 6        | 14.72         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H   | 16       | 14.72         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2 | 12       | 14.71         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2 | 1        | 14.71         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2 | 1        | 14.71         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 5        | 14.71         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 5        | 14.71         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 5        | 14.71         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 1        | 14.71         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 16       | 14.71         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 16       | 14.71         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 6        | 14.71         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 6        | 14.71         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 9        | 14.71         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 1        | 14.71         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 1        | 14.71         |
| (1,2972) | 1:A:11:TRP:HH2 | 1:A:22:GLN:HG2 | 15       | 14.71         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 7        | 14.71         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 15       | 14.71         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 18       | 14.71         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H   | 19       | 14.71         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA  | 7        | 14.71         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3 | 13       | 14.71         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 1        | 14.71         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 1        | 14.71         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 1        | 14.71         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 2        | 14.71         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 2        | 14.71         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 11       | 14.71         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 14       | 14.71         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 10       | 14.71         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 10       | 14.71         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 10       | 14.71         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H   | 1        | 14.71         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA  | 2        | 14.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 17       | 14.71         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 5        | 14.71         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 16       | 14.71         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 16       | 14.71         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 17       | 14.71         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 17       | 14.71         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 8        | 14.71         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 6        | 14.7          |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 6        | 14.7          |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 6        | 14.7          |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 6        | 14.7          |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 6        | 14.7          |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 5        | 14.7          |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 6        | 14.7          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 12       | 14.7          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 12       | 14.7          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 1        | 14.7          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 1        | 14.7          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 6        | 14.7          |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 6        | 14.7          |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 2        | 14.7          |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 11       | 14.7          |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 14       | 14.7          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2  | 4        | 14.7          |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3  | 4        | 14.7          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 11       | 14.7          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 11       | 14.7          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 11       | 14.7          |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 13       | 14.7          |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 13       | 14.7          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 10       | 14.7          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 10       | 14.7          |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 2        | 14.7          |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 14       | 14.7          |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 7        | 14.7          |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 6        | 14.7          |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 1        | 14.7          |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 17       | 14.7          |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 6        | 14.7          |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 10       | 14.7          |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 20       | 14.7          |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 11       | 14.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 13       | 14.7          |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 8        | 14.7          |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 8        | 14.7          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 4        | 14.7          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 4        | 14.7          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 9        | 14.7          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 9        | 14.7          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 9        | 14.7          |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 1        | 14.7          |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 14       | 14.7          |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 11       | 14.69         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 13       | 14.69         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 5        | 14.69         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 5        | 14.69         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 19       | 14.69         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 4        | 14.69         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 6        | 14.69         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 13       | 14.69         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 15       | 14.69         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 18       | 14.69         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 8        | 14.69         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 8        | 14.69         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 20       | 14.69         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 20       | 14.69         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 2        | 14.69         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 4        | 14.69         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 9        | 14.69         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 9        | 14.69         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 16       | 14.69         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 14       | 14.69         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 12       | 14.69         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 7        | 14.69         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 7        | 14.69         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 7        | 14.69         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 9        | 14.69         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 19       | 14.69         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 3        | 14.69         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 3        | 14.69         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 2        | 14.69         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 9        | 14.69         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 6        | 14.69         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 13       | 14.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1104) | 1:A:4:ASN:H    | 1:A:31:LYS:HB3  | 2        | 14.69         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 9        | 14.68         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 17       | 14.68         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 4        | 14.68         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 7        | 14.68         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 3        | 14.68         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 17       | 14.68         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 19       | 14.68         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 19       | 14.68         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 19       | 14.68         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 4        | 14.68         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 11       | 14.68         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 11       | 14.68         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 19       | 14.68         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD2  | 20       | 14.68         |
| (1,3130) | 1:A:13:GLY:H   | 1:A:31:LYS:HD3  | 20       | 14.68         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 13       | 14.68         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 14       | 14.68         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 10       | 14.68         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 11       | 14.68         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 4        | 14.68         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 11       | 14.68         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 13       | 14.68         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 4        | 14.68         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 5        | 14.68         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 5        | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 16       | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 16       | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 18       | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 18       | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 19       | 14.68         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 19       | 14.68         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 2        | 14.68         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA   | 4        | 14.68         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 7        | 14.68         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 7        | 14.68         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 12       | 14.68         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 12       | 14.68         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 3        | 14.68         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 4        | 14.68         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 7        | 14.68         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 7        | 14.68         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 7        | 14.68         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 4        | 14.68         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 12       | 14.68         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 1        | 14.68         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 9        | 14.68         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 8        | 14.68         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 8        | 14.68         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 5        | 14.68         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 5        | 14.68         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 13       | 14.68         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 13       | 14.68         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 16       | 14.68         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 3        | 14.68         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 9        | 14.68         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 20       | 14.68         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 2        | 14.68         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 10       | 14.67         |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2  | 4        | 14.67         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 15       | 14.67         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 15       | 14.67         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 1        | 14.67         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG2  | 20       | 14.67         |
| (1,3074) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HG3  | 20       | 14.67         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 5        | 14.67         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 5        | 14.67         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 12       | 14.67         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 16       | 14.67         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 17       | 14.67         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 17       | 14.67         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 17       | 14.67         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 10       | 14.67         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 16       | 14.67         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 16       | 14.67         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 20       | 14.67         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 1        | 14.67         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 5        | 14.67         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 5        | 14.67         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 11       | 14.67         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 13       | 14.67         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 13       | 14.67         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 3        | 14.67         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 5        | 14.67         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2 | 5        | 14.67         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 12       | 14.67         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H   | 7        | 14.67         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 2        | 14.67         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 2        | 14.67         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA  | 15       | 14.67         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 10       | 14.67         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 10       | 14.67         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2 | 18       | 14.67         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3 | 18       | 14.67         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2 | 3        | 14.67         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3 | 3        | 14.67         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 10       | 14.67         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 10       | 14.67         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2 | 12       | 14.67         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA  | 2        | 14.67         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 1        | 14.67         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2 | 1        | 14.66         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1 | 8        | 14.66         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2 | 8        | 14.66         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 18       | 14.66         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 18       | 14.66         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 18       | 14.66         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 6        | 14.66         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 15       | 14.66         |
| (1,4132) | 1:A:22:GLN:H   | 1:A:35:HIS:HE1 | 14       | 14.66         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1 | 9        | 14.66         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2 | 9        | 14.66         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3 | 9        | 14.66         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3 | 3        | 14.66         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 17       | 14.66         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 17       | 14.66         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 17       | 14.66         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 17       | 14.66         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 11       | 14.66         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 11       | 14.66         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3 | 15       | 14.66         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA  | 1        | 14.66         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA  | 15       | 14.66         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 18       | 14.66         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 18       | 14.66         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H   | 5        | 14.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 2        | 14.66         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 20       | 14.66         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 20       | 14.66         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 2        | 14.66         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 12       | 14.66         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 15       | 14.66         |
| (1,1613) | 1:A:6:GLN:HB2  | 1:A:34:ALA:H    | 16       | 14.66         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 5        | 14.66         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 15       | 14.66         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 12       | 14.66         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 12       | 14.66         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 1        | 14.66         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 19       | 14.66         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 10       | 14.66         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 7        | 14.66         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 20       | 14.66         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 5        | 14.66         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 16       | 14.66         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 18       | 14.66         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 19       | 14.66         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 15       | 14.65         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 12       | 14.65         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 12       | 14.65         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 6        | 14.65         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 17       | 14.65         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 13       | 14.65         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 7        | 14.65         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 7        | 14.65         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 5        | 14.65         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 6        | 14.65         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 7        | 14.65         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 12       | 14.65         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 7        | 14.65         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 3        | 14.65         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 20       | 14.65         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 3        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 2        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 2        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 2        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB1  | 4        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB2  | 4        | 14.65         |
| (1,2575) | 1:A:10:GLY:HA3 | 1:A:34:ALA:HB3  | 4        | 14.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 3        | 14.65         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 6        | 14.65         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 7        | 14.65         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 15       | 14.65         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 15       | 14.65         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 13       | 14.65         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 16       | 14.65         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 18       | 14.65         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA   | 4        | 14.65         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 14       | 14.65         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 13       | 14.65         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 13       | 14.65         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 6        | 14.65         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 6        | 14.65         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 17       | 14.65         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 17       | 14.65         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 10       | 14.65         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 12       | 14.65         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 5        | 14.65         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 11       | 14.65         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 2        | 14.65         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 18       | 14.65         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 12       | 14.65         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 2        | 14.65         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 5        | 14.65         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 15       | 14.65         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 11       | 14.64         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 11       | 14.64         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 12       | 14.64         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 12       | 14.64         |
| (1,798)  | 1:A:3:PRO:HB2  | 1:A:22:GLN:H    | 2        | 14.64         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 8        | 14.64         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 8        | 14.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 20       | 14.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 20       | 14.64         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 20       | 14.64         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 11       | 14.64         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 8        | 14.64         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 4        | 14.64         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 10       | 14.64         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 1        | 14.64         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 1        | 14.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD2  | 8        | 14.64         |
| (1,3076) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HD3  | 8        | 14.64         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 18       | 14.64         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 18       | 14.64         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 12       | 14.64         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 8        | 14.64         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 9        | 14.64         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 20       | 14.64         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 5        | 14.64         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 18       | 14.64         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 10       | 14.64         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 4        | 14.64         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 19       | 14.64         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 15       | 14.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 16       | 14.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 16       | 14.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 16       | 14.64         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 11       | 14.64         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 11       | 14.64         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 7        | 14.64         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 7        | 14.64         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 11       | 14.64         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 18       | 14.64         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 3        | 14.64         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 5        | 14.64         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 14       | 14.64         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 6        | 14.64         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 20       | 14.64         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA2  | 19       | 14.64         |
| (1,1371) | 1:A:4:ASN:HD22 | 1:A:29:GLY:HA3  | 19       | 14.64         |
| (1,1177) | 1:A:4:ASN:HB2  | 1:A:35:HIS:HD2  | 3        | 14.64         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 3        | 14.64         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 18       | 14.64         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 11       | 14.64         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 11       | 14.63         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 11       | 14.63         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2  | 20       | 14.63         |
| (1,671)  | 1:A:2:GLY:H    | 1:A:35:HIS:H    | 9        | 14.63         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 12       | 14.63         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 12       | 14.63         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 12       | 14.63         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 8        | 14.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 12       | 14.63         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 14       | 14.63         |
| (1,3561) | 1:A:17:GLY:H   | 1:A:23:TYR:HB3  | 15       | 14.63         |
| (1,3442) | 1:A:15:ARG:HE  | 1:A:31:LYS:HB2  | 1        | 14.63         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H    | 16       | 14.63         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 18       | 14.63         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 18       | 14.63         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 14       | 14.63         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 11       | 14.63         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 10       | 14.63         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 10       | 14.63         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 18       | 14.63         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 1        | 14.63         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 18       | 14.63         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 19       | 14.63         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 2        | 14.63         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 6        | 14.63         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE2  | 18       | 14.63         |
| (1,2609) | 1:A:11:TRP:H   | 1:A:31:LYS:HE3  | 18       | 14.63         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 3        | 14.63         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 10       | 14.63         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA   | 4        | 14.63         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 3        | 14.63         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 11       | 14.63         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 11       | 14.63         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 10       | 14.63         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 7        | 14.63         |
| (1,1688) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HA   | 16       | 14.63         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 6        | 14.63         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 6        | 14.63         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 12       | 14.63         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 13       | 14.63         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 13       | 14.63         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 6        | 14.63         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 11       | 14.63         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 11       | 14.63         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 11       | 14.63         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 19       | 14.63         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 19       | 14.63         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 19       | 14.63         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 17       | 14.63         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 17       | 14.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 2        | 14.63         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 7        | 14.63         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 20       | 14.62         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 8        | 14.62         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 17       | 14.62         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 17       | 14.62         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 2        | 14.62         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 2        | 14.62         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 19       | 14.62         |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 13       | 14.62         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB1  | 8        | 14.62         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB2  | 8        | 14.62         |
| (1,2828) | 1:A:11:TRP:HE3 | 1:A:34:ALA:HB3  | 8        | 14.62         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 8        | 14.62         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 19       | 14.62         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 15       | 14.62         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 6        | 14.62         |
| (1,2715) | 1:A:11:TRP:HB3 | 1:A:32:TYR:H    | 16       | 14.62         |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 20       | 14.62         |
| (1,2578) | 1:A:10:GLY:HA3 | 1:A:35:HIS:HE1  | 1        | 14.62         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 14       | 14.62         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 11       | 14.62         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 15       | 14.62         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 15       | 14.62         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 15       | 14.62         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 3        | 14.62         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 19       | 14.62         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 2        | 14.62         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 17       | 14.62         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 2        | 14.62         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 8        | 14.62         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 10       | 14.62         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 8        | 14.62         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 19       | 14.62         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 10       | 14.62         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 5        | 14.61         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 14       | 14.61         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 14       | 14.61         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD2  | 8        | 14.61         |
| (1,767)  | 1:A:3:PRO:HA   | 1:A:31:LYS:HD3  | 8        | 14.61         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 2        | 14.61         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 2        | 14.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 9        | 14.61         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 9        | 14.61         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 9        | 14.61         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 11       | 14.61         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 11       | 14.61         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 11       | 14.61         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 10       | 14.61         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 18       | 14.61         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 2        | 14.61         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 2        | 14.61         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 10       | 14.61         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 17       | 14.61         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 10       | 14.61         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 10       | 14.61         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 11       | 14.61         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 1        | 14.61         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 9        | 14.61         |
| (1,2822) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HA   | 16       | 14.61         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 12       | 14.61         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 12       | 14.61         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 12       | 14.61         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 10       | 14.61         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 10       | 14.61         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 14       | 14.61         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 14       | 14.61         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 5        | 14.61         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 10       | 14.61         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 13       | 14.61         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 13       | 14.61         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 6        | 14.61         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 6        | 14.61         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 6        | 14.61         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 6        | 14.61         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 18       | 14.61         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 13       | 14.61         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 4        | 14.61         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 8        | 14.6          |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 18       | 14.6          |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 18       | 14.6          |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 19       | 14.6          |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 19       | 14.6          |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 14       | 14.6          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 18       | 14.6          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 3        | 14.6          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 3        | 14.6          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 7        | 14.6          |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 7        | 14.6          |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 14       | 14.6          |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 9        | 14.6          |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 19       | 14.6          |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 16       | 14.6          |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 19       | 14.6          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 15       | 14.6          |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 10       | 14.6          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 19       | 14.6          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 19       | 14.6          |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 19       | 14.6          |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 5        | 14.6          |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 5        | 14.6          |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 14       | 14.6          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 2        | 14.6          |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 3        | 14.6          |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 10       | 14.6          |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 4        | 14.6          |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 2        | 14.6          |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 11       | 14.6          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 7        | 14.6          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 7        | 14.6          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 20       | 14.6          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 20       | 14.6          |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 6        | 14.6          |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 10       | 14.6          |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 19       | 14.59         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 19       | 14.59         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 19       | 14.59         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 19       | 14.59         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 19       | 14.59         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 19       | 14.59         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 16       | 14.59         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 16       | 14.59         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 2        | 14.59         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 10       | 14.59         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 19       | 14.59         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 7        | 14.59         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 7        | 14.59         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 10       | 14.59         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 15       | 14.59         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 5        | 14.59         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 13       | 14.59         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 9        | 14.59         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 18       | 14.59         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 19       | 14.59         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 9        | 14.59         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 9        | 14.59         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 19       | 14.59         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 18       | 14.59         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 18       | 14.59         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 17       | 14.59         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 11       | 14.59         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 12       | 14.59         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 7        | 14.59         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 2        | 14.58         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 3        | 14.58         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 5        | 14.58         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 14       | 14.58         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 14       | 14.58         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 13       | 14.58         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 17       | 14.58         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 17       | 14.58         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 17       | 14.58         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 8        | 14.58         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 8        | 14.58         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 9        | 14.58         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 3        | 14.58         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 14       | 14.58         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 14       | 14.58         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 15       | 14.58         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 15       | 14.58         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 15       | 14.58         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 15       | 14.58         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 10       | 14.58         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 11       | 14.58         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 13       | 14.58         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 4        | 14.58         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 4        | 14.58         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 7        | 14.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 12       | 14.58         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 20       | 14.58         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 6        | 14.58         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 19       | 14.58         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 1        | 14.58         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 6        | 14.58         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 14       | 14.58         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 13       | 14.58         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 13       | 14.58         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 17       | 14.58         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 17       | 14.58         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 5        | 14.58         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2  | 3        | 14.58         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 6        | 14.58         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 15       | 14.58         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 13       | 14.58         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 17       | 14.58         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 14       | 14.58         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 14       | 14.58         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 6        | 14.58         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 14       | 14.58         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 7        | 14.57         |
| (1,673)  | 1:A:2:GLY:H    | 1:A:35:HIS:HD2  | 3        | 14.57         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 4        | 14.57         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 4        | 14.57         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 13       | 14.57         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 13       | 14.57         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 5        | 14.57         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 11       | 14.57         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 11       | 14.57         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 4        | 14.57         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 4        | 14.57         |
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 17       | 14.57         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 6        | 14.57         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 15       | 14.57         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 15       | 14.57         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 3        | 14.57         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 3        | 14.57         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 20       | 14.57         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 20       | 14.57         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 15       | 14.57         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 7        | 14.57         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 10       | 14.57         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 16       | 14.57         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 5        | 14.57         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 20       | 14.57         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 1        | 14.57         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 1        | 14.57         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 5        | 14.57         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 5        | 14.57         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 14       | 14.57         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 16       | 14.57         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 16       | 14.57         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 13       | 14.57         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 13       | 14.57         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 11       | 14.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 14       | 14.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 14       | 14.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 14       | 14.57         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 11       | 14.57         |
| (1,1022) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HA   | 5        | 14.57         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 8        | 14.56         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 8        | 14.56         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 6        | 14.56         |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2  | 2        | 14.56         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 4        | 14.56         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 4        | 14.56         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 14       | 14.56         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 14       | 14.56         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 15       | 14.56         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 17       | 14.56         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 17       | 14.56         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 20       | 14.56         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 11       | 14.56         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 11       | 14.56         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 12       | 14.56         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 9        | 14.56         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 9        | 14.56         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 9        | 14.56         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 5        | 14.56         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 1        | 14.56         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 1        | 14.56         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 12       | 14.56         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 12       | 14.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 17       | 14.56         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 6        | 14.56         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 6        | 14.56         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 14       | 14.56         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 7        | 14.56         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 5        | 14.56         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 5        | 14.56         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 17       | 14.56         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 1        | 14.56         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 1        | 14.56         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 1        | 14.56         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 2        | 14.56         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 4        | 14.56         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 15       | 14.55         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 15       | 14.55         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 15       | 14.55         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 15       | 14.55         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 15       | 14.55         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 15       | 14.55         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 13       | 14.55         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 13       | 14.55         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 20       | 14.55         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 20       | 14.55         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 13       | 14.55         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 13       | 14.55         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 17       | 14.55         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 15       | 14.55         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 15       | 14.55         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 8        | 14.55         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 8        | 14.55         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 6        | 14.55         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 6        | 14.55         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 12       | 14.55         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 16       | 14.55         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 16       | 14.55         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 19       | 14.55         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 19       | 14.55         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 19       | 14.55         |
| (1,2968) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HG   | 9        | 14.55         |
| (1,2905) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:H    | 8        | 14.55         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 3        | 14.55         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 3        | 14.55         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2 | 16       | 14.55         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3 | 16       | 14.55         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2 | 15       | 14.55         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3 | 15       | 14.55         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2 | 14       | 14.55         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 6        | 14.55         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H   | 10       | 14.55         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA  | 14       | 14.55         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 7        | 14.55         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 7        | 14.55         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 7        | 14.55         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2 | 20       | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 3        | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 3        | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 4        | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 4        | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 5        | 14.55         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 5        | 14.55         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 1        | 14.55         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H   | 5        | 14.55         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H   | 10       | 14.55         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 3        | 14.55         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 3        | 14.55         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2 | 13       | 14.55         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 17       | 14.55         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 13       | 14.55         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 13       | 14.55         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 8        | 14.55         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 1        | 14.55         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3 | 11       | 14.55         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3 | 10       | 14.55         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2 | 12       | 14.55         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H   | 20       | 14.55         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2 | 10       | 14.54         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 16       | 14.54         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2 | 7        | 14.54         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2 | 7        | 14.54         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H   | 5        | 14.54         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 7        | 14.54         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1 | 5        | 14.54         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2 | 5        | 14.54         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 6        | 14.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 6        | 14.54         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 1        | 14.54         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 16       | 14.54         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 10       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 18       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 18       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 18       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 19       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 19       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 19       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 20       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 20       | 14.54         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 20       | 14.54         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 4        | 14.54         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 17       | 14.54         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 17       | 14.54         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 17       | 14.54         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 6        | 14.54         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 2        | 14.54         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 13       | 14.54         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 13       | 14.54         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 13       | 14.54         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 2        | 14.54         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 15       | 14.54         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 9        | 14.54         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 12       | 14.54         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 9        | 14.54         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 15       | 14.54         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 15       | 14.54         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 8        | 14.54         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 8        | 14.54         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 18       | 14.53         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 18       | 14.53         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 18       | 14.53         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 18       | 14.53         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 20       | 14.53         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 20       | 14.53         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 19       | 14.53         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3  | 19       | 14.53         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 17       | 14.53         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 11       | 14.53         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 11       | 14.53         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3502) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HB3  | 6        | 14.53         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 4        | 14.53         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 4        | 14.53         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 12       | 14.53         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 12       | 14.53         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 18       | 14.53         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 3        | 14.53         |
| (1,2873) | 1:A:11:TRP:HE1 | 1:A:28:SER:H    | 17       | 14.53         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 3        | 14.53         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 4        | 14.53         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 2        | 14.53         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 5        | 14.53         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 3        | 14.53         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 9        | 14.53         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 20       | 14.53         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 14       | 14.53         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 15       | 14.53         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 1        | 14.53         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 9        | 14.53         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 17       | 14.53         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 20       | 14.53         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 20       | 14.53         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 15       | 14.53         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 15       | 14.53         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 12       | 14.53         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 8        | 14.52         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 8        | 14.52         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 16       | 14.52         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 16       | 14.52         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 18       | 14.52         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 18       | 14.52         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 2        | 14.52         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 18       | 14.52         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 6        | 14.52         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 6        | 14.52         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 1        | 14.52         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 1        | 14.52         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 4        | 14.52         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 4        | 14.52         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 13       | 14.52         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 13       | 14.52         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 13       | 14.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 17       | 14.52         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 17       | 14.52         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 8        | 14.52         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 3        | 14.52         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 7        | 14.52         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 14       | 14.52         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 2        | 14.52         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 8        | 14.52         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 8        | 14.52         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 11       | 14.52         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 11       | 14.52         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1  | 8        | 14.52         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2  | 8        | 14.52         |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3  | 8        | 14.52         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 16       | 14.52         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 4        | 14.52         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 4        | 14.52         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 6        | 14.52         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 10       | 14.52         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 10       | 14.52         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 10       | 14.52         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 10       | 14.52         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 6        | 14.52         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 7        | 14.52         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 11       | 14.52         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 5        | 14.52         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 10       | 14.52         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 10       | 14.52         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 10       | 14.52         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 10       | 14.52         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 7        | 14.51         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 7        | 14.51         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 13       | 14.51         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 2        | 14.51         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 2        | 14.51         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 7        | 14.51         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 7        | 14.51         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 6        | 14.51         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 12       | 14.51         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 10       | 14.51         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 14       | 14.51         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 9        | 14.51         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 9        | 14.51         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 13       | 14.51         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 13       | 14.51         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 2        | 14.51         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 7        | 14.51         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 8        | 14.51         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 18       | 14.51         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 19       | 14.51         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 5        | 14.51         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 9        | 14.51         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 9        | 14.51         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 1        | 14.51         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 1        | 14.51         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 10       | 14.51         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 2        | 14.51         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 2        | 14.51         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 5        | 14.51         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 1        | 14.51         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 4        | 14.51         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 4        | 14.51         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 5        | 14.51         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 5        | 14.51         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 2        | 14.51         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 17       | 14.51         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 17       | 14.51         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 3        | 14.51         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 14       | 14.51         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 9        | 14.5          |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1  | 4        | 14.5          |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 16       | 14.5          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 8        | 14.5          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 8        | 14.5          |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 20       | 14.5          |
| (1,2890) | 1:A:11:TRP:HE1 | 1:A:33:CYS:HA   | 17       | 14.5          |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 5        | 14.5          |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 14       | 14.5          |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 3        | 14.5          |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 8        | 14.5          |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 8        | 14.5          |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 15       | 14.5          |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 15       | 14.5          |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 1        | 14.5          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 10       | 14.5          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 10       | 14.5          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 10       | 14.5          |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 10       | 14.5          |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 10       | 14.5          |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 14       | 14.5          |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 14       | 14.5          |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 13       | 14.5          |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 11       | 14.5          |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 15       | 14.5          |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 1        | 14.5          |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 6        | 14.5          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 2        | 14.5          |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 2        | 14.5          |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 8        | 14.5          |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 12       | 14.5          |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 14       | 14.49         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 14       | 14.49         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 2        | 14.49         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 2        | 14.49         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 3        | 14.49         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 14       | 14.49         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 17       | 14.49         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 17       | 14.49         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 10       | 14.49         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 10       | 14.49         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 10       | 14.49         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 16       | 14.49         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 18       | 14.49         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 6        | 14.49         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 8        | 14.49         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 17       | 14.49         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 17       | 14.49         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE1  | 17       | 14.49         |
| (1,2502) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HE2  | 17       | 14.49         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 5        | 14.49         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 3        | 14.49         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 3        | 14.49         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 15       | 14.49         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 15       | 14.49         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 5        | 14.49         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 10       | 14.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 1        | 14.49         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 20       | 14.49         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 20       | 14.49         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 10       | 14.49         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 2        | 14.49         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 2        | 14.49         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 2        | 14.49         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 9        | 14.48         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 9        | 14.48         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 8        | 14.48         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 10       | 14.48         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 19       | 14.48         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 19       | 14.48         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 13       | 14.48         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 20       | 14.48         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG3  | 20       | 14.48         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 2        | 14.48         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 2        | 14.48         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 2        | 14.48         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 2        | 14.48         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 5        | 14.48         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 5        | 14.48         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 5        | 14.48         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 10       | 14.48         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 19       | 14.48         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 5        | 14.48         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 11       | 14.48         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 5        | 14.48         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 1        | 14.48         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 11       | 14.48         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 7        | 14.48         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 7        | 14.48         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 8        | 14.48         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 8        | 14.48         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 19       | 14.48         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE1  | 17       | 14.48         |
| (1,2518) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HE2  | 17       | 14.48         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 3        | 14.48         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 3        | 14.48         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 2        | 14.48         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 2        | 14.48         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 4        | 14.48         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1  | 8        | 14.48         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2  | 8        | 14.48         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3  | 8        | 14.48         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 9        | 14.48         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 9        | 14.48         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 12       | 14.48         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 12       | 14.48         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 13       | 14.48         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 13       | 14.48         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 1        | 14.48         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 9        | 14.48         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 16       | 14.48         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 7        | 14.48         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 7        | 14.48         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 16       | 14.48         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 7        | 14.48         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 16       | 14.48         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 16       | 14.48         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 3        | 14.47         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 3        | 14.47         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 14       | 14.47         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 14       | 14.47         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 14       | 14.47         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 14       | 14.47         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 17       | 14.47         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 17       | 14.47         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 17       | 14.47         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 5        | 14.47         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 5        | 14.47         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 9        | 14.47         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 4        | 14.47         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 9        | 14.47         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 15       | 14.47         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 8        | 14.47         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 6        | 14.47         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 6        | 14.47         |
| (1,2416) | 1:A:9:PRO:HG3  | 1:A:34:ALA:H    | 17       | 14.47         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 4        | 14.47         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 12       | 14.47         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 11       | 14.47         |
| (1,2375) | 1:A:9:PRO:HG3  | 1:A:16:GLY:H    | 3        | 14.47         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 11       | 14.47         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 20       | 14.47         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 10       | 14.47         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 10       | 14.47         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 20       | 14.47         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 9        | 14.47         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 9        | 14.47         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 11       | 14.47         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 11       | 14.47         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2 | 9        | 14.47         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3 | 9        | 14.47         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 7        | 14.47         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 20       | 14.47         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 14       | 14.47         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 20       | 14.47         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 20       | 14.47         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 20       | 14.47         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H   | 8        | 14.47         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1 | 13       | 14.46         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2 | 13       | 14.46         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 20       | 14.46         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA  | 14       | 14.46         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 7        | 14.46         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 13       | 14.46         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H   | 15       | 14.46         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 19       | 14.46         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 12       | 14.46         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 12       | 14.46         |
| (1,2240) | 1:A:9:PRO:HB2  | 1:A:33:CYS:HA  | 17       | 14.46         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2 | 15       | 14.46         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2 | 6        | 14.46         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3 | 6        | 14.46         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2 | 8        | 14.46         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3 | 8        | 14.46         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1 | 10       | 14.46         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2 | 10       | 14.46         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3 | 10       | 14.46         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 6        | 14.46         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 6        | 14.46         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 14       | 14.46         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 14       | 14.46         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 14       | 14.46         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 7        | 14.46         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 16       | 14.46         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 2        | 14.46         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 13       | 14.46         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 13       | 14.46         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 18       | 14.46         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 8        | 14.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 7        | 14.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 7        | 14.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 7        | 14.46         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 10       | 14.46         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 10       | 14.46         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 16       | 14.46         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 1        | 14.46         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 1        | 14.46         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 17       | 14.46         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 17       | 14.46         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 2        | 14.46         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 6        | 14.46         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 8        | 14.46         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 20       | 14.46         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 16       | 14.45         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 16       | 14.45         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 7        | 14.45         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 7        | 14.45         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 4        | 14.45         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 11       | 14.45         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 11       | 14.45         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 4        | 14.45         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 4        | 14.45         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 12       | 14.45         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 14       | 14.45         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 14       | 14.45         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 14       | 14.45         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3  | 8        | 14.45         |
| (1,2499) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HG3  | 5        | 14.45         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 4        | 14.45         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 4        | 14.45         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 3        | 14.45         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 14       | 14.45         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 6        | 14.45         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 13       | 14.45         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 13       | 14.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 5        | 14.45         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 5        | 14.45         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 7        | 14.45         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 7        | 14.45         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 19       | 14.45         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 7        | 14.45         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 7        | 14.45         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 9        | 14.45         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 9        | 14.45         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 5        | 14.45         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 17       | 14.45         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 17       | 14.45         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 17       | 14.45         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 8        | 14.45         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 18       | 14.45         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 18       | 14.45         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 18       | 14.45         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 8        | 14.45         |
| (1,1243) | 1:A:4:ASN:HB3  | 1:A:35:HIS:H    | 19       | 14.45         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 5        | 14.45         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 8        | 14.45         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 12       | 14.45         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 12       | 14.45         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 2        | 14.44         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 2        | 14.44         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 2        | 14.44         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 2        | 14.44         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 1        | 14.44         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 1        | 14.44         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 16       | 14.44         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 1        | 14.44         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 3        | 14.44         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 3        | 14.44         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 14       | 14.44         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 1        | 14.44         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 1        | 14.44         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 1        | 14.44         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 1        | 14.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 12       | 14.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 12       | 14.44         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 10       | 14.44         |
| (1,3443) | 1:A:15:ARG:HE  | 1:A:31:LYS:HG2  | 1        | 14.44         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3443) | 1:A:15:ARG:HE   | 1:A:31:LYS:HG3  | 1        | 14.44         |
| (1,3413) | 1:A:15:ARG:HD2  | 1:A:31:LYS:HA   | 2        | 14.44         |
| (1,3413) | 1:A:15:ARG:HD3  | 1:A:31:LYS:HA   | 2        | 14.44         |
| (1,2905) | 1:A:11:TRP:HZ3  | 1:A:16:GLY:H    | 9        | 14.44         |
| (1,2797) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HG2  | 4        | 14.44         |
| (1,2770) | 1:A:11:TRP:HD1  | 1:A:33:CYS:H    | 9        | 14.44         |
| (1,2595) | 1:A:11:TRP:H    | 1:A:22:GLN:HE22 | 9        | 14.44         |
| (1,2190) | 1:A:9:PRO:HA    | 1:A:35:HIS:HB3  | 18       | 14.44         |
| (1,1850) | 1:A:6:GLN:HE21  | 1:A:31:LYS:HE2  | 5        | 14.44         |
| (1,1850) | 1:A:6:GLN:HE21  | 1:A:31:LYS:HE3  | 5        | 14.44         |
| (1,1808) | 1:A:6:GLN:HE21  | 1:A:15:ARG:HA   | 6        | 14.44         |
| (1,1675) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HB2  | 17       | 14.44         |
| (1,1612) | 1:A:6:GLN:HB2   | 1:A:33:CYS:HB2  | 9        | 14.44         |
| (1,1612) | 1:A:6:GLN:HB2   | 1:A:33:CYS:HB2  | 12       | 14.44         |
| (1,1612) | 1:A:6:GLN:HB2   | 1:A:33:CYS:HB2  | 20       | 14.44         |
| (1,1558) | 1:A:6:GLN:HA    | 1:A:15:ARG:HE   | 4        | 14.44         |
| (1,1491) | 1:A:5:GLY:HA3   | 1:A:30:PRO:HB2  | 18       | 14.44         |
| (1,1491) | 1:A:5:GLY:HA3   | 1:A:30:PRO:HB2  | 20       | 14.44         |
| (1,1383) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HA   | 16       | 14.44         |
| (1,1343) | 1:A:4:ASN:HD22  | 1:A:17:GLY:HA2  | 2        | 14.44         |
| (1,1343) | 1:A:4:ASN:HD22  | 1:A:17:GLY:HA3  | 2        | 14.44         |
| (1,1343) | 1:A:4:ASN:HD22  | 1:A:17:GLY:HA2  | 10       | 14.44         |
| (1,1343) | 1:A:4:ASN:HD22  | 1:A:17:GLY:HA3  | 10       | 14.44         |
| (1,1303) | 1:A:4:ASN:HD21  | 1:A:31:LYS:HE2  | 5        | 14.44         |
| (1,1303) | 1:A:4:ASN:HD21  | 1:A:31:LYS:HE3  | 5        | 14.44         |
| (1,1267) | 1:A:4:ASN:HD21  | 1:A:17:GLY:H    | 1        | 14.44         |
| (1,1016) | 1:A:3:PRO:HD3   | 1:A:19:CYS:HB3  | 18       | 14.44         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA2  | 3        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA2  | 3        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA3  | 3        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA3  | 3        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA2  | 4        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA2  | 4        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA3  | 4        | 14.43         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA3  | 4        | 14.43         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 7        | 14.43         |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE21 | 15       | 14.43         |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE22 | 15       | 14.43         |
| (1,3437) | 1:A:15:ARG:HE   | 1:A:30:PRO:HB2  | 13       | 14.43         |
| (1,3437) | 1:A:15:ARG:HE   | 1:A:30:PRO:HB3  | 13       | 14.43         |
| (1,3401) | 1:A:15:ARG:HD2  | 1:A:22:GLN:HA   | 6        | 14.43         |
| (1,3401) | 1:A:15:ARG:HD3  | 1:A:22:GLN:HA   | 6        | 14.43         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 2        | 14.43         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 2        | 14.43         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 2        | 14.43         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 17       | 14.43         |
| (1,2767) | 1:A:11:TRP:HD1 | 1:A:32:TYR:H    | 17       | 14.43         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 20       | 14.43         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 20       | 14.43         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 10       | 14.43         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 1        | 14.43         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 1        | 14.43         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 11       | 14.43         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 11       | 14.43         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 7        | 14.43         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 1        | 14.43         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 6        | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 1        | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 1        | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 5        | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 5        | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 11       | 14.43         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 11       | 14.43         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 16       | 14.43         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 16       | 14.43         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 15       | 14.43         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2  | 11       | 14.43         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 18       | 14.43         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 19       | 14.43         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 12       | 14.43         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 15       | 14.43         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 16       | 14.43         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 13       | 14.43         |
| (1,1241) | 1:A:4:ASN:HB3  | 1:A:34:ALA:H    | 7        | 14.43         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 18       | 14.43         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 19       | 14.43         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 15       | 14.42         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 15       | 14.42         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 15       | 14.42         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 15       | 14.42         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 16       | 14.42         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 12       | 14.42         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 12       | 14.42         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 13       | 14.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 16       | 14.42         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 16       | 14.42         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 4        | 14.42         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 4        | 14.42         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 15       | 14.42         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 15       | 14.42         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 8        | 14.42         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 1        | 14.42         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 1        | 14.42         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 2        | 14.42         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 3        | 14.42         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 6        | 14.42         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 19       | 14.42         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 19       | 14.42         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 1        | 14.42         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 1        | 14.42         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 2        | 14.42         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 2        | 14.42         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 4        | 14.42         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 4        | 14.42         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 19       | 14.42         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 13       | 14.42         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 20       | 14.42         |
| (1,1491) | 1:A:5:GLY:HA3  | 1:A:30:PRO:HB2  | 19       | 14.42         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 7        | 14.42         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 18       | 14.42         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 4        | 14.42         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 3        | 14.42         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 19       | 14.42         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 20       | 14.42         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 5        | 14.42         |
| (1,1021) | 1:A:3:PRO:HD3  | 1:A:22:GLN:H    | 10       | 14.42         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 9        | 14.42         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 6        | 14.41         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 6        | 14.41         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 6        | 14.41         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 6        | 14.41         |
| (1,912)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:HA2  | 17       | 14.41         |
| (1,912)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:HA2  | 17       | 14.41         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 19       | 14.41         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 19       | 14.41         |
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG2  | 20       | 14.41         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,739)  | 1:A:2:GLY:HA3  | 1:A:31:LYS:HG3 | 20       | 14.41         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 7        | 14.41         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 7        | 14.41         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 7        | 14.41         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2 | 4        | 14.41         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3 | 4        | 14.41         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 9        | 14.41         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2 | 11       | 14.41         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2 | 7        | 14.41         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 7        | 14.41         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1 | 17       | 14.41         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2 | 17       | 14.41         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3 | 17       | 14.41         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 19       | 14.41         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3 | 2        | 14.41         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 4        | 14.41         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 15       | 14.41         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 6        | 14.41         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 6        | 14.41         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 6        | 14.41         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1 | 3        | 14.41         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2 | 3        | 14.41         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA  | 15       | 14.41         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H   | 1        | 14.41         |
| (1,2242) | 1:A:9:PRO:HB2  | 1:A:35:HIS:H   | 17       | 14.41         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 9        | 14.41         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 9        | 14.41         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 4        | 14.41         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 3        | 14.41         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2 | 8        | 14.41         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2 | 16       | 14.41         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2 | 6        | 14.41         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3 | 6        | 14.41         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 5        | 14.41         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 5        | 14.41         |
| (1,1244) | 1:A:4:ASN:HB3  | 1:A:35:HIS:HD2 | 19       | 14.41         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2 | 16       | 14.41         |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3 | 16       | 14.41         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2 | 11       | 14.4          |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2 | 12       | 14.4          |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1 | 8        | 14.4          |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1 | 19       | 14.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 7        | 14.4          |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 9        | 14.4          |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 11       | 14.4          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 6        | 14.4          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 6        | 14.4          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 6        | 14.4          |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 11       | 14.4          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 20       | 14.4          |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 20       | 14.4          |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 4        | 14.4          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 6        | 14.4          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 6        | 14.4          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 7        | 14.4          |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 7        | 14.4          |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 3        | 14.4          |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 3        | 14.4          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 11       | 14.4          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 11       | 14.4          |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 15       | 14.4          |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 14       | 14.4          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 7        | 14.4          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 7        | 14.4          |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 18       | 14.4          |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 10       | 14.4          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 13       | 14.4          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 13       | 14.4          |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 6        | 14.4          |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 4        | 14.4          |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 6        | 14.4          |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 19       | 14.4          |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 13       | 14.4          |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 13       | 14.4          |
| (1,1016) | 1:A:3:PRO:HD3  | 1:A:19:CYS:HB3  | 7        | 14.4          |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 9        | 14.39         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 9        | 14.39         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 1        | 14.39         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 1        | 14.39         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 19       | 14.39         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 19       | 14.39         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 17       | 14.39         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 11       | 14.39         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 3        | 14.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 3        | 14.39         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 3        | 14.39         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 5        | 14.39         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 5        | 14.39         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 5        | 14.39         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 14       | 14.39         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 14       | 14.39         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 9        | 14.39         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 9        | 14.39         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 16       | 14.39         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 16       | 14.39         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 13       | 14.39         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 13       | 14.39         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 6        | 14.39         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 5        | 14.39         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 5        | 14.39         |
| (1,1880) | 1:A:6:GLN:HE22 | 1:A:17:GLY:H    | 14       | 14.39         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 10       | 14.39         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 11       | 14.39         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 3        | 14.39         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 6        | 14.39         |
| (1,1612) | 1:A:6:GLN:HB2  | 1:A:33:CYS:HB2  | 7        | 14.39         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 8        | 14.39         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 15       | 14.39         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA   | 18       | 14.39         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 2        | 14.39         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 18       | 14.39         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 5        | 14.39         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 5        | 14.39         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 5        | 14.39         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 8        | 14.39         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 8        | 14.39         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 1        | 14.38         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 16       | 14.38         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 16       | 14.38         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 16       | 14.38         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 5        | 14.38         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 5        | 14.38         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 4        | 14.38         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 4        | 14.38         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 19       | 14.38         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 19       | 14.38         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 13       | 14.38         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 13       | 14.38         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 17       | 14.38         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 17       | 14.38         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 6        | 14.38         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 6        | 14.38         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 11       | 14.38         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 11       | 14.38         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 9        | 14.38         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 9        | 14.38         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 7        | 14.38         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H    | 7        | 14.38         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 1        | 14.38         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 16       | 14.38         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 18       | 14.38         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 18       | 14.38         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2  | 19       | 14.38         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3  | 19       | 14.38         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 12       | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 8        | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 8        | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 12       | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 12       | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 14       | 14.38         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 14       | 14.38         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 6        | 14.38         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 6        | 14.38         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 13       | 14.38         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 6        | 14.38         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 5        | 14.38         |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H    | 19       | 14.38         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 16       | 14.38         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA   | 19       | 14.38         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 5        | 14.38         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 20       | 14.38         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 13       | 14.38         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 9        | 14.37         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 9        | 14.37         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 9        | 14.37         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 9        | 14.37         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 20       | 14.37         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 20       | 14.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 15       | 14.37         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 19       | 14.37         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 19       | 14.37         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE2  | 18       | 14.37         |
| (1,3077) | 1:A:12:GLY:HA3 | 1:A:31:LYS:HE3  | 18       | 14.37         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG2  | 20       | 14.37         |
| (1,3027) | 1:A:12:GLY:H   | 1:A:31:LYS:HG3  | 20       | 14.37         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 20       | 14.37         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 19       | 14.37         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 19       | 14.37         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 14       | 14.37         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 14       | 14.37         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 13       | 14.37         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 13       | 14.37         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 5        | 14.37         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 2        | 14.37         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 8        | 14.37         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 19       | 14.37         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 5        | 14.37         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 5        | 14.37         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 13       | 14.37         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 17       | 14.37         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 17       | 14.37         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 17       | 14.37         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 8        | 14.37         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 17       | 14.37         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 16       | 14.36         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2  | 20       | 14.36         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 15       | 14.36         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 15       | 14.36         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 15       | 14.36         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 15       | 14.36         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 2        | 14.36         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 16       | 14.36         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 16       | 14.36         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 3        | 14.36         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 8        | 14.36         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 18       | 14.36         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 19       | 14.36         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 6        | 14.36         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1  | 4        | 14.36         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2  | 4        | 14.36         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2714) | 1:A:11:TRP:HB3  | 1:A:31:LYS:HZ3  | 4        | 14.36         |
| (1,2663) | 1:A:11:TRP:HB2  | 1:A:29:GLY:H    | 20       | 14.36         |
| (1,2627) | 1:A:11:TRP:HA   | 1:A:28:SER:H    | 9        | 14.36         |
| (1,2517) | 1:A:10:GLY:HA2  | 1:A:32:TYR:HD1  | 7        | 14.36         |
| (1,2517) | 1:A:10:GLY:HA2  | 1:A:32:TYR:HD2  | 7        | 14.36         |
| (1,2379) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HA   | 11       | 14.36         |
| (1,2098) | 1:A:8:GLY:HA2   | 1:A:31:LYS:HB3  | 11       | 14.36         |
| (1,2066) | 1:A:8:GLY:H     | 1:A:31:LYS:HB2  | 1        | 14.36         |
| (1,2063) | 1:A:8:GLY:H     | 1:A:30:PRO:HB2  | 7        | 14.36         |
| (1,2063) | 1:A:8:GLY:H     | 1:A:30:PRO:HB3  | 7        | 14.36         |
| (1,2063) | 1:A:8:GLY:H     | 1:A:30:PRO:HB2  | 9        | 14.36         |
| (1,2063) | 1:A:8:GLY:H     | 1:A:30:PRO:HB3  | 9        | 14.36         |
| (1,1913) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HA   | 17       | 14.36         |
| (1,1538) | 1:A:6:GLN:H     | 1:A:31:LYS:HA   | 4        | 14.36         |
| (1,1525) | 1:A:6:GLN:H     | 1:A:22:GLN:HE22 | 8        | 14.36         |
| (1,1379) | 1:A:4:ASN:HD22  | 1:A:31:LYS:HG2  | 16       | 14.36         |
| (1,1379) | 1:A:4:ASN:HD22  | 1:A:31:LYS:HG3  | 16       | 14.36         |
| (1,1355) | 1:A:4:ASN:HD22  | 1:A:22:GLN:H    | 17       | 14.36         |
| (1,1323) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HA    | 6        | 14.36         |
| (1,1140) | 1:A:4:ASN:HB2   | 1:A:17:GLY:HA2  | 7        | 14.36         |
| (1,989)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HB2  | 18       | 14.35         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA2  | 2        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA2  | 2        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA3  | 2        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA3  | 2        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA2  | 5        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA2  | 5        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG2   | 1:A:29:GLY:HA3  | 5        | 14.35         |
| (1,935)  | 1:A:3:PRO:HG3   | 1:A:29:GLY:HA3  | 5        | 14.35         |
| (1,911)  | 1:A:3:PRO:HG2   | 1:A:17:GLY:H    | 4        | 14.35         |
| (1,911)  | 1:A:3:PRO:HG3   | 1:A:17:GLY:H    | 4        | 14.35         |
| (1,788)  | 1:A:3:PRO:HB2   | 1:A:17:GLY:H    | 19       | 14.35         |
| (1,739)  | 1:A:2:GLY:HA3   | 1:A:31:LYS:HG2  | 14       | 14.35         |
| (1,739)  | 1:A:2:GLY:HA3   | 1:A:31:LYS:HG3  | 14       | 14.35         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 10       | 14.35         |
| (1,3450) | 1:A:15:ARG:HE   | 1:A:35:HIS:HB3  | 20       | 14.35         |
| (1,3320) | 1:A:15:ARG:HB2  | 1:A:35:HIS:HB3  | 11       | 14.35         |
| (1,3105) | 1:A:13:GLY:H    | 1:A:22:GLN:HG3  | 3        | 14.35         |
| (1,2808) | 1:A:11:TRP:HE3  | 1:A:28:SER:H    | 4        | 14.35         |
| (1,2808) | 1:A:11:TRP:HE3  | 1:A:28:SER:H    | 6        | 14.35         |
| (1,2797) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HG2  | 18       | 14.35         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB1  | 9        | 14.35         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2 | 9        | 14.35         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3 | 9        | 14.35         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 16       | 14.35         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 7        | 14.35         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 7        | 14.35         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA2 | 16       | 14.35         |
| (1,2706) | 1:A:11:TRP:HB3 | 1:A:29:GLY:HA3 | 16       | 14.35         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 1        | 14.35         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 8        | 14.35         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 1        | 14.35         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 1        | 14.35         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 9        | 14.35         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 9        | 14.35         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 17       | 14.35         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 14       | 14.35         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 14       | 14.35         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 16       | 14.35         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 3        | 14.35         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2 | 8        | 14.35         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3 | 8        | 14.35         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 1        | 14.35         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 4        | 14.35         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 17       | 14.35         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H   | 14       | 14.35         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA  | 2        | 14.35         |
| (1,1383) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HA  | 19       | 14.35         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2 | 1        | 14.35         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3 | 1        | 14.35         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 5        | 14.35         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 16       | 14.35         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2 | 17       | 14.35         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3 | 17       | 14.35         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 3        | 14.35         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 6        | 14.35         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 18       | 14.34         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 3        | 14.34         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1 | 19       | 14.34         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2 | 19       | 14.34         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1 | 1        | 14.34         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2 | 1        | 14.34         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3 | 1        | 14.34         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1 | 5        | 14.34         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2 | 5        | 14.34         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3 | 13       | 14.34         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3 | 13       | 14.34         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 18       | 14.34         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 17       | 14.34         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 17       | 14.34         |
| (1,2906) | 1:A:11:TRP:HZ3 | 1:A:16:GLY:HA3 | 9        | 14.34         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 1        | 14.34         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 18       | 14.34         |
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H   | 19       | 14.34         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 15       | 14.34         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1 | 15       | 14.34         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2 | 15       | 14.34         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 8        | 14.34         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 8        | 14.34         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 12       | 14.34         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 12       | 14.34         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 11       | 14.34         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 19       | 14.34         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3 | 1        | 14.34         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 9        | 14.34         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 3        | 14.34         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 10       | 14.34         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 3        | 14.34         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 5        | 14.34         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2 | 19       | 14.34         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 4        | 14.34         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 10       | 14.34         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2 | 2        | 14.34         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3 | 2        | 14.34         |
| (1,989)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HB2 | 19       | 14.33         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H   | 3        | 14.33         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H   | 3        | 14.33         |
| (1,3981) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HE1 | 14       | 14.33         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 19       | 14.33         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 19       | 14.33         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2 | 3        | 14.33         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1 | 6        | 14.33         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2 | 6        | 14.33         |
| (1,3440) | 1:A:15:ARG:HE  | 1:A:31:LYS:H   | 1        | 14.33         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA  | 3        | 14.33         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA  | 3        | 14.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 6        | 14.33         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 6        | 14.33         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 12       | 14.33         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 4        | 14.33         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 4        | 14.33         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 6        | 14.33         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 6        | 14.33         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 2        | 14.33         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 9        | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 18       | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 18       | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 18       | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 20       | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 20       | 14.33         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 20       | 14.33         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 5        | 14.33         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 7        | 14.33         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 7        | 14.33         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 7        | 14.33         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 20       | 14.33         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 16       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 16       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 16       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 18       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 18       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 19       | 14.33         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 19       | 14.33         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 1        | 14.33         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 1        | 14.33         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 18       | 14.33         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 3        | 14.33         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 6        | 14.33         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 6        | 14.33         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 12       | 14.33         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 12       | 14.33         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 12       | 14.33         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 3        | 14.33         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 3        | 14.33         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 4        | 14.33         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 4        | 14.33         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 11       | 14.33         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 11       | 14.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 14       | 14.33         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 9        | 14.33         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 11       | 14.32         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 11       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 11       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 11       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 11       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 11       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 12       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 12       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 12       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 12       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 13       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 13       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 13       | 14.32         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 13       | 14.32         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 14       | 14.32         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 14       | 14.32         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 4        | 14.32         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 20       | 14.32         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 20       | 14.32         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 18       | 14.32         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 18       | 14.32         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 13       | 14.32         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 10       | 14.32         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 10       | 14.32         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 20       | 14.32         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 10       | 14.32         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 10       | 14.32         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 19       | 14.32         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 19       | 14.32         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 10       | 14.32         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 10       | 14.32         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 10       | 14.32         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 14       | 14.32         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 17       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 11       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 11       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 11       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 19       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 19       | 14.32         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 19       | 14.32         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2663) | 1:A:11:TRP:HB2 | 1:A:29:GLY:H    | 16       | 14.32         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 6        | 14.32         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 14       | 14.32         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 1        | 14.32         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 1        | 14.32         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 5        | 14.32         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 5        | 14.32         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 15       | 14.32         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 15       | 14.32         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 1        | 14.32         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 1        | 14.32         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 3        | 14.32         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 3        | 14.32         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 5        | 14.32         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 9        | 14.32         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 9        | 14.32         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 12       | 14.32         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 12       | 14.32         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 10       | 14.32         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 19       | 14.32         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 19       | 14.32         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 11       | 14.32         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 2        | 14.32         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 4        | 14.32         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 6        | 14.32         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 3        | 14.32         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 20       | 14.32         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 17       | 14.32         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 9        | 14.32         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 9        | 14.32         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 12       | 14.32         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 12       | 14.32         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 2        | 14.32         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 14       | 14.32         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 10       | 14.32         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 5        | 14.32         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 14       | 14.32         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 3        | 14.32         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 3        | 14.31         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 3        | 14.31         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 10       | 14.31         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 11       | 14.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 11       | 14.31         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 11       | 14.31         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3  | 1        | 14.31         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 17       | 14.31         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 17       | 14.31         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 9        | 14.31         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 20       | 14.31         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 9        | 14.31         |
| (1,3032) | 1:A:12:GLY:H   | 1:A:32:TYR:H    | 17       | 14.31         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 11       | 14.31         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 15       | 14.31         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 11       | 14.31         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 5        | 14.31         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 5        | 14.31         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 11       | 14.31         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 11       | 14.31         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 1        | 14.31         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 1        | 14.31         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 11       | 14.31         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 11       | 14.31         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 5        | 14.31         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 6        | 14.31         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 6        | 14.31         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 12       | 14.31         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 1        | 14.31         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 1        | 14.31         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 10       | 14.31         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 10       | 14.31         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 15       | 14.31         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 15       | 14.31         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 2        | 14.31         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 2        | 14.31         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 6        | 14.31         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 1        | 14.31         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 17       | 14.31         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 1        | 14.31         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 4        | 14.31         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 9        | 14.31         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 20       | 14.31         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 20       | 14.31         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 5        | 14.31         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 6        | 14.31         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H   | 13       | 14.31         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 4        | 14.31         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 11       | 14.3          |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 11       | 14.3          |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1 | 1        | 14.3          |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2 | 1        | 14.3          |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1 | 17       | 14.3          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 12       | 14.3          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 12       | 14.3          |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 11       | 14.3          |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 20       | 14.3          |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 9        | 14.3          |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H   | 13       | 14.3          |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 7        | 14.3          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 7        | 14.3          |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 7        | 14.3          |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA  | 12       | 14.3          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 5        | 14.3          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 5        | 14.3          |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 13       | 14.3          |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 17       | 14.3          |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 20       | 14.3          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ1 | 18       | 14.3          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ2 | 18       | 14.3          |
| (1,2408) | 1:A:9:PRO:HG3  | 1:A:31:LYS:HZ3 | 18       | 14.3          |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA  | 1        | 14.3          |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 7        | 14.3          |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 9        | 14.3          |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 16       | 14.3          |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 20       | 14.3          |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1 | 20       | 14.3          |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2 | 20       | 14.3          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2 | 7        | 14.3          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3 | 7        | 14.3          |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 13       | 14.3          |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 8        | 14.3          |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 14       | 14.3          |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2 | 4        | 14.3          |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3 | 4        | 14.3          |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 6        | 14.3          |
| (1,1735) | 1:A:6:GLN:HG2  | 1:A:35:HIS:H   | 20       | 14.3          |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 6        | 14.3          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 3        | 14.3          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 3        | 14.3          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 11       | 14.3          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3 | 11       | 14.3          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 12       | 14.3          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3 | 12       | 14.3          |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 8        | 14.29         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1 | 18       | 14.29         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 16       | 14.29         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 1        | 14.29         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1 | 19       | 14.29         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2 | 19       | 14.29         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 8        | 14.29         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 12       | 14.29         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 10       | 14.29         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA  | 8        | 14.29         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA  | 20       | 14.29         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H   | 5        | 14.29         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3 | 13       | 14.29         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1 | 1        | 14.29         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2 | 1        | 14.29         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3 | 1        | 14.29         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 11       | 14.29         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 11       | 14.29         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1 | 9        | 14.29         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 12       | 14.29         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H   | 7        | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1 | 7        | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2 | 7        | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3 | 7        | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1 | 16       | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2 | 16       | 14.29         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3 | 16       | 14.29         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 7        | 14.29         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 18       | 14.29         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 19       | 14.29         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA  | 2        | 14.29         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG  | 8        | 14.29         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 3        | 14.29         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2 | 12       | 14.29         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3 | 12       | 14.29         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 10       | 14.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 10       | 14.29         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 15       | 14.29         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 10       | 14.29         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 14       | 14.29         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 14       | 14.29         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 14       | 14.29         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 2        | 14.29         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 11       | 14.29         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 17       | 14.29         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 17       | 14.29         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 17       | 14.29         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 18       | 14.29         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 12       | 14.29         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 3        | 14.28         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 3        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 1        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 1        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 1        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 1        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 10       | 14.28         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 10       | 14.28         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 10       | 14.28         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 10       | 14.28         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 16       | 14.28         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 7        | 14.28         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 12       | 14.28         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 14.28         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 14.28         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 14.28         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 1        | 14.28         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 1        | 14.28         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 18       | 14.28         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 18       | 14.28         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 4        | 14.28         |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 5        | 14.28         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 14       | 14.28         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 11       | 14.28         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 7        | 14.28         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 14       | 14.28         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 14       | 14.28         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 8        | 14.28         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 10       | 14.28         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 10       | 14.28         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 15       | 14.28         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 3        | 14.28         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 3        | 14.28         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 2        | 14.28         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 2        | 14.28         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 18       | 14.28         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 1        | 14.28         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 1        | 14.28         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 3        | 14.28         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 13       | 14.28         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 3        | 14.28         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 6        | 14.28         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 3        | 14.28         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 2        | 14.28         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 2        | 14.28         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 15       | 14.27         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 15       | 14.27         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 15       | 14.27         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 15       | 14.27         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 8        | 14.27         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 9        | 14.27         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 1        | 14.27         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 20       | 14.27         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 15       | 14.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 12       | 14.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 12       | 14.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 13       | 14.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 13       | 14.27         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 5        | 14.27         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 12       | 14.27         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 12       | 14.27         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 12       | 14.27         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 8        | 14.27         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 4        | 14.27         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 16       | 14.27         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 4        | 14.27         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 4        | 14.27         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 18       | 14.27         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 19       | 14.27         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 4        | 14.27         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 4        | 14.27         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 17       | 14.27         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 13       | 14.27         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 17       | 14.27         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 18       | 14.27         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 19       | 14.27         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 13       | 14.27         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 3        | 14.27         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 6        | 14.27         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1  | 5        | 14.27         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2  | 5        | 14.27         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 15       | 14.27         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 9        | 14.27         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 13       | 14.27         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 1        | 14.27         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 1        | 14.27         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 17       | 14.27         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 17       | 14.27         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 12       | 14.27         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 19       | 14.27         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 20       | 14.27         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 1        | 14.27         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 1        | 14.27         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 17       | 14.27         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 17       | 14.27         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 17       | 14.27         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 4        | 14.27         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 11       | 14.27         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 13       | 14.27         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 2        | 14.26         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 2        | 14.26         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 5        | 14.26         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 5        | 14.26         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 5        | 14.26         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 5        | 14.26         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 13       | 14.26         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 13       | 14.26         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 15       | 14.26         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 14       | 14.26         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 2        | 14.26         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 9        | 14.26         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 9        | 14.26         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 20       | 14.26         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1 | 3        | 14.26         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2 | 3        | 14.26         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3 | 3        | 14.26         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1 | 7        | 14.26         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2 | 7        | 14.26         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3 | 7        | 14.26         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3 | 18       | 14.26         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3 | 19       | 14.26         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1 | 6        | 14.26         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2 | 6        | 14.26         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2 | 1        | 14.26         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 2        | 14.26         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 2        | 14.26         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 16       | 14.26         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 16       | 14.26         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 18       | 14.26         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 19       | 14.26         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2 | 11       | 14.26         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H   | 3        | 14.26         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 20       | 14.26         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 20       | 14.26         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 20       | 14.26         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 13       | 14.26         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 13       | 14.26         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 9        | 14.26         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 13       | 14.26         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 13       | 14.26         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA  | 4        | 14.26         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 14.26         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 6        | 14.26         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2 | 19       | 14.26         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3 | 19       | 14.26         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 12       | 14.26         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 13       | 14.26         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 13       | 14.26         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 5        | 14.26         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2 | 3        | 14.26         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3 | 3        | 14.26         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2 | 6        | 14.26         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3 | 6        | 14.26         |
| (1,1538) | 1:A:6:GLN:H    | 1:A:31:LYS:HA  | 2        | 14.26         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2 | 6        | 14.26         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3 | 6        | 14.26         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2 | 16       | 14.26         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3 | 16       | 14.26         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA  | 19       | 14.26         |
| (1,672)  | 1:A:2:GLY:H    | 1:A:35:HIS:HB2 | 1        | 14.25         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2 | 9        | 14.25         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3 | 9        | 14.25         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 16       | 14.25         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 16       | 14.25         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2 | 20       | 14.25         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2 | 4        | 14.25         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 1        | 14.25         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 18       | 14.25         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 19       | 14.25         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 12       | 14.25         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA  | 12       | 14.25         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA  | 12       | 14.25         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1 | 18       | 14.25         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2 | 18       | 14.25         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 20       | 14.25         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3 | 2        | 14.25         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3 | 4        | 14.25         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA  | 9        | 14.25         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 4        | 14.25         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 4        | 14.25         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 3        | 14.25         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 3        | 14.25         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H   | 10       | 14.25         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H   | 13       | 14.25         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 7        | 14.25         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1 | 13       | 14.25         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2 | 13       | 14.25         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 8        | 14.25         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 8        | 14.25         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 12       | 14.25         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 12       | 14.25         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ1 | 18       | 14.25         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ2 | 18       | 14.25         |
| (1,2345) | 1:A:9:PRO:HG2  | 1:A:31:LYS:HZ3 | 18       | 14.25         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 2        | 14.25         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 2        | 14.25         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2 | 20       | 14.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 20       | 14.25         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 2        | 14.25         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 2        | 14.25         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2  | 14       | 14.25         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3  | 14       | 14.25         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 8        | 14.25         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 8        | 14.25         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 8        | 14.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 11       | 14.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 11       | 14.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 11       | 14.25         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 12       | 14.25         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 12       | 14.25         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 8        | 14.25         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 8        | 14.25         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 3        | 14.25         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 3        | 14.25         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 18       | 14.25         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 18       | 14.25         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 4        | 14.25         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 4        | 14.25         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 15       | 14.25         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 4        | 14.25         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 12       | 14.25         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 11       | 14.25         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 13       | 14.25         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 13       | 14.25         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 13       | 14.25         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE2  | 18       | 14.24         |
| (1,987)  | 1:A:3:PRO:HD2  | 1:A:31:LYS:HE3  | 18       | 14.24         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 8        | 14.24         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 8        | 14.24         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 8        | 14.24         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 8        | 14.24         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 18       | 14.24         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 18       | 14.24         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 15       | 14.24         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 13       | 14.24         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 16       | 14.24         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 16       | 14.24         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 10       | 14.24         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 9        | 14.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 9        | 14.24         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 2        | 14.24         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 13       | 14.24         |
| (1,3528) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HG2  | 14       | 14.24         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 7        | 14.24         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 9        | 14.24         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 9        | 14.24         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 20       | 14.24         |
| (1,3122) | 1:A:13:GLY:H   | 1:A:29:GLY:HA3  | 16       | 14.24         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 20       | 14.24         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 20       | 14.24         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 3        | 14.24         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 7        | 14.24         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 2        | 14.24         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 2        | 14.24         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 8        | 14.24         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 6        | 14.24         |
| (1,2627) | 1:A:11:TRP:HA  | 1:A:28:SER:H    | 16       | 14.24         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 2        | 14.24         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 2        | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 18       | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 18       | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 19       | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 19       | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 20       | 14.24         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 20       | 14.24         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 2        | 14.24         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 2        | 14.24         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 9        | 14.24         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 16       | 14.24         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 16       | 14.24         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 18       | 14.24         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 18       | 14.24         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 11       | 14.24         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 11       | 14.24         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 5        | 14.24         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 14       | 14.24         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 12       | 14.24         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 12       | 14.24         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 20       | 14.24         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 20       | 14.24         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 5        | 14.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 5        | 14.24         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 5        | 14.24         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 5        | 14.24         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 6        | 14.24         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 6        | 14.24         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 10       | 14.23         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 10       | 14.23         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 10       | 14.23         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 10       | 14.23         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 9        | 14.23         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H    | 19       | 14.23         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 6        | 14.23         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 4        | 14.23         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 4        | 14.23         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 15       | 14.23         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 12       | 14.23         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 12       | 14.23         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 2        | 14.23         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 1        | 14.23         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 1        | 14.23         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 19       | 14.23         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 19       | 14.23         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 15       | 14.23         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 15       | 14.23         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 3        | 14.23         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 11       | 14.23         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 11       | 14.23         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 14       | 14.23         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 13       | 14.23         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 19       | 14.23         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 18       | 14.23         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 18       | 14.23         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1  | 4        | 14.23         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2  | 4        | 14.23         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 16       | 14.23         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 16       | 14.23         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1  | 4        | 14.23         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2  | 4        | 14.23         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 10       | 14.23         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 10       | 14.23         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 10       | 14.23         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 10       | 14.23         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 10       | 14.23         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 12       | 14.23         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 4        | 14.23         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 4        | 14.23         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG  | 5        | 14.23         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 16       | 14.23         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 8        | 14.23         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 5        | 14.23         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 5        | 14.23         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2 | 19       | 14.23         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3 | 19       | 14.23         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 2        | 14.23         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 2        | 14.23         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 10       | 14.23         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 10       | 14.23         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2 | 12       | 14.23         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3 | 12       | 14.23         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 2        | 14.23         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 2        | 14.23         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 17       | 14.23         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3 | 6        | 14.23         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 10       | 14.23         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 10       | 14.23         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 10       | 14.23         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 9        | 14.23         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3 | 9        | 14.23         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 13       | 14.23         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3 | 13       | 14.23         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA  | 6        | 14.22         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA  | 6        | 14.22         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2 | 7        | 14.22         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2 | 7        | 14.22         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3 | 7        | 14.22         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3 | 7        | 14.22         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1 | 10       | 14.22         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2 | 10       | 14.22         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H   | 19       | 14.22         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 15       | 14.22         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 18       | 14.22         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2 | 2        | 14.22         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2 | 5        | 14.22         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1 | 3        | 14.22         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2 | 3        | 14.22         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 9        | 14.22         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 9        | 14.22         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2 | 20       | 14.22         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2 | 9        | 14.22         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3 | 9        | 14.22         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1 | 11       | 14.22         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2 | 11       | 14.22         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H   | 15       | 14.22         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 5        | 14.22         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 18       | 14.22         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 19       | 14.22         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA  | 16       | 14.22         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 3        | 14.22         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 3        | 14.22         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 6        | 14.22         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 6        | 14.22         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H   | 16       | 14.22         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 7        | 14.22         |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA  | 16       | 14.22         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 9        | 14.22         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 2        | 14.22         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG  | 6        | 14.22         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 16       | 14.22         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 10       | 14.22         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 10       | 14.22         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2 | 4        | 14.22         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3 | 4        | 14.22         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2 | 19       | 14.22         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3 | 19       | 14.22         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 1        | 14.22         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 7        | 14.22         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 11       | 14.22         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 7        | 14.22         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 7        | 14.22         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 10       | 14.22         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 10       | 14.22         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 12       | 14.22         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 12       | 14.22         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 12       | 14.22         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 4        | 14.22         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 1        | 14.22         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE  | 17       | 14.22         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 11       | 14.22         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H   | 12       | 14.22         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 3        | 14.22         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3 | 3        | 14.22         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA  | 10       | 14.21         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA  | 10       | 14.21         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1 | 4        | 14.21         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2 | 4        | 14.21         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H   | 18       | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 4        | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 4        | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 4        | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1 | 6        | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2 | 6        | 14.21         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3 | 6        | 14.21         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2 | 18       | 14.21         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 20       | 14.21         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 12       | 14.21         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 12       | 14.21         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 12       | 14.21         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 12       | 14.21         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 11       | 14.21         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 14       | 14.21         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1 | 16       | 14.21         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2 | 16       | 14.21         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 11       | 14.21         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2 | 9        | 14.21         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2 | 7        | 14.21         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3 | 7        | 14.21         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1 | 3        | 14.21         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2 | 3        | 14.21         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA  | 17       | 14.21         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 19       | 14.21         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA  | 8        | 14.21         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA  | 8        | 14.21         |
| (1,3078) | 1:A:12:GLY:HA3 | 1:A:32:TYR:H   | 16       | 14.21         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3 | 5        | 14.21         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3 | 6        | 14.21         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 14       | 14.21         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 14       | 14.21         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 20       | 14.21         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG2  | 20       | 14.21         |
| (1,2713) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HG3  | 20       | 14.21         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 17       | 14.21         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 14       | 14.21         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 14       | 14.21         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 14       | 14.21         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 16       | 14.21         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 16       | 14.21         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 9        | 14.21         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 18       | 14.21         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 19       | 14.21         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 20       | 14.21         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 15       | 14.21         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 15       | 14.21         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 9        | 14.21         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 9        | 14.21         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 6        | 14.21         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 13       | 14.21         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 11       | 14.21         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 11       | 14.21         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 15       | 14.21         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 15       | 14.21         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 6        | 14.21         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2  | 18       | 14.21         |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3  | 18       | 14.21         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 15       | 14.21         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 11       | 14.21         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 11       | 14.21         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 19       | 14.21         |
| (1,1233) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HA   | 2        | 14.21         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 5        | 14.21         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 13       | 14.21         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 9        | 14.21         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 14       | 14.21         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 8        | 14.21         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 8        | 14.21         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 6        | 14.2          |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 6        | 14.2          |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 16       | 14.2          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 13       | 14.2          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 13       | 14.2          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 13       | 14.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 20       | 14.2          |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 20       | 14.2          |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 15       | 14.2          |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 19       | 14.2          |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 19       | 14.2          |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 19       | 14.2          |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 17       | 14.2          |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 17       | 14.2          |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 9        | 14.2          |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 9        | 14.2          |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 18       | 14.2          |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 18       | 14.2          |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 2        | 14.2          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD2  | 8        | 14.2          |
| (1,3029) | 1:A:12:GLY:H   | 1:A:31:LYS:HD3  | 8        | 14.2          |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 12       | 14.2          |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 12       | 14.2          |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 6        | 14.2          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 16       | 14.2          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 16       | 14.2          |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 16       | 14.2          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 13       | 14.2          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 17       | 14.2          |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 18       | 14.2          |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 19       | 14.2          |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 20       | 14.2          |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 7        | 14.2          |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 8        | 14.2          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 5        | 14.2          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 5        | 14.2          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 19       | 14.2          |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 19       | 14.2          |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 18       | 14.2          |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 13       | 14.2          |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 13       | 14.2          |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 13       | 14.2          |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 8        | 14.2          |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 13       | 14.2          |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 15       | 14.2          |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 4        | 14.2          |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 4        | 14.2          |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 3        | 14.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 10       | 14.2          |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 1        | 14.2          |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 17       | 14.2          |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 17       | 14.2          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 1        | 14.2          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 1        | 14.2          |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 11       | 14.19         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 11       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 20       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 20       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 20       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 20       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 20       | 14.19         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 20       | 14.19         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 3        | 14.19         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 19       | 14.19         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 8        | 14.19         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 8        | 14.19         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1  | 10       | 14.19         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 3        | 14.19         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 8        | 14.19         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 8        | 14.19         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 18       | 14.19         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 18       | 14.19         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 16       | 14.19         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 16       | 14.19         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2  | 20       | 14.19         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3  | 20       | 14.19         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 3        | 14.19         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 3        | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 3        | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 3        | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 12       | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 12       | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 13       | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 13       | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 15       | 14.19         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 15       | 14.19         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 8        | 14.19         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 15       | 14.19         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 8        | 14.19         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 7        | 14.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 7        | 14.19         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 7        | 14.19         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 9        | 14.19         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 3        | 14.19         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 2        | 14.19         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 2        | 14.19         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 15       | 14.19         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 15       | 14.19         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 9        | 14.19         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 16       | 14.19         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 20       | 14.19         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 1        | 14.19         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 8        | 14.19         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 9        | 14.19         |
| (1,1708) | 1:A:6:GLN:HG2  | 1:A:17:GLY:HA3  | 17       | 14.19         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 6        | 14.19         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 6        | 14.19         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 2        | 14.19         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 2        | 14.19         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG2  | 19       | 14.19         |
| (1,1379) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HG3  | 19       | 14.19         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 14       | 14.19         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 14       | 14.19         |
| (1,1267) | 1:A:4:ASN:HD21 | 1:A:17:GLY:H    | 15       | 14.19         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 1        | 14.19         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 11       | 14.19         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 9        | 14.18         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 9        | 14.18         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 12       | 14.18         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 12       | 14.18         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 2        | 14.18         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 2        | 14.18         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 20       | 14.18         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 5        | 14.18         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 5        | 14.18         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 3        | 14.18         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 3        | 14.18         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 19       | 14.18         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 19       | 14.18         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 15       | 14.18         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 15       | 14.18         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 17       | 14.18         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 17       | 14.18         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB2 | 16       | 14.18         |
| (1,3123) | 1:A:13:GLY:H   | 1:A:30:PRO:HB3 | 16       | 14.18         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3 | 11       | 14.18         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA  | 6        | 14.18         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2 | 4        | 14.18         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3 | 4        | 14.18         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 5        | 14.18         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 5        | 14.18         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 9        | 14.18         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 9        | 14.18         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 11       | 14.18         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 7        | 14.18         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 7        | 14.18         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2 | 4        | 14.18         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H   | 5        | 14.18         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2 | 3        | 14.18         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2 | 8        | 14.18         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 3        | 14.18         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 3        | 14.18         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2 | 15       | 14.18         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3 | 15       | 14.18         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2 | 15       | 14.18         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3 | 15       | 14.18         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 6        | 14.18         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA  | 4        | 14.18         |
| (1,2236) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HA  | 17       | 14.18         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 5        | 14.18         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 8        | 14.18         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 18       | 14.18         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 19       | 14.18         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3 | 17       | 14.18         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 15       | 14.18         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 15       | 14.18         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG2 | 20       | 14.18         |
| (1,1911) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HG3 | 20       | 14.18         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2 | 5        | 14.18         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3 | 5        | 14.18         |
| (1,1707) | 1:A:6:GLN:HG2  | 1:A:16:GLY:HA2 | 14       | 14.18         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 7        | 14.18         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 8        | 14.18         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 9        | 14.18         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1281) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HG3  | 2        | 14.18         |
| (1,1267) | 1:A:4:ASN:HD21  | 1:A:17:GLY:H    | 14       | 14.18         |
| (1,1263) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HA   | 3        | 14.18         |
| (1,1171) | 1:A:4:ASN:HB2   | 1:A:33:CYS:H    | 2        | 14.18         |
| (1,1043) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HB3  | 4        | 14.18         |
| (1,1043) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HB3  | 14       | 14.18         |
| (1,1010) | 1:A:3:PRO:HD3   | 1:A:17:GLY:H    | 1        | 14.18         |
| (1,788)  | 1:A:3:PRO:HB2   | 1:A:17:GLY:H    | 8        | 14.17         |
| (1,693)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HE21 | 11       | 14.17         |
| (1,693)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HE22 | 11       | 14.17         |
| (1,667)  | 1:A:2:GLY:H     | 1:A:33:CYS:H    | 14       | 14.17         |
| (1,582)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB2  | 4        | 14.17         |
| (1,582)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB2  | 4        | 14.17         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 9        | 14.17         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1  | 11       | 14.17         |
| (1,3628) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HE1  | 5        | 14.17         |
| (1,3628) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HE2  | 5        | 14.17         |
| (1,3624) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HB3  | 7        | 14.17         |
| (1,3533) | 1:A:16:GLY:HA3  | 1:A:23:TYR:HD1  | 5        | 14.17         |
| (1,3533) | 1:A:16:GLY:HA3  | 1:A:23:TYR:HD2  | 5        | 14.17         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB2  | 1        | 14.17         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB3  | 1        | 14.17         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2  | 12       | 14.17         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3  | 12       | 14.17         |
| (1,3439) | 1:A:15:ARG:HE   | 1:A:30:PRO:HD3  | 1        | 14.17         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1  | 4        | 14.17         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2  | 4        | 14.17         |
| (1,3123) | 1:A:13:GLY:H    | 1:A:30:PRO:HB2  | 18       | 14.17         |
| (1,3123) | 1:A:13:GLY:H    | 1:A:30:PRO:HB3  | 18       | 14.17         |
| (1,3123) | 1:A:13:GLY:H    | 1:A:30:PRO:HB2  | 19       | 14.17         |
| (1,3123) | 1:A:13:GLY:H    | 1:A:30:PRO:HB3  | 19       | 14.17         |
| (1,3060) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HG3  | 2        | 14.17         |
| (1,3031) | 1:A:12:GLY:H    | 1:A:31:LYS:HZ1  | 8        | 14.17         |
| (1,3031) | 1:A:12:GLY:H    | 1:A:31:LYS:HZ2  | 8        | 14.17         |
| (1,3031) | 1:A:12:GLY:H    | 1:A:31:LYS:HZ3  | 8        | 14.17         |
| (1,3019) | 1:A:12:GLY:H    | 1:A:28:SER:HB3  | 9        | 14.17         |
| (1,2915) | 1:A:11:TRP:HZ3  | 1:A:22:GLN:HA   | 1        | 14.17         |
| (1,2915) | 1:A:11:TRP:HZ3  | 1:A:22:GLN:HA   | 11       | 14.17         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2  | 17       | 14.17         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3  | 17       | 14.17         |
| (1,2620) | 1:A:11:TRP:HA   | 1:A:22:GLN:HG2  | 15       | 14.17         |
| (1,2550) | 1:A:10:GLY:HA3  | 1:A:23:TYR:HE1  | 10       | 14.17         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 10       | 14.17         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 18       | 14.17         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 18       | 14.17         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 7        | 14.17         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 14       | 14.17         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG  | 7        | 14.17         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 12       | 14.17         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 6        | 14.17         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 6        | 14.17         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 6        | 14.17         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 3        | 14.17         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 3        | 14.17         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 11       | 14.17         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 11       | 14.17         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 11       | 14.17         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 20       | 14.17         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 19       | 14.17         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2 | 14       | 14.17         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3 | 14       | 14.17         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H   | 15       | 14.17         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2 | 1        | 14.17         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 15       | 14.17         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2 | 4        | 14.17         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3 | 4        | 14.17         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 5        | 14.17         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3 | 4        | 14.17         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 12       | 14.17         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 13       | 14.17         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA  | 14       | 14.16         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA  | 14       | 14.16         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2 | 18       | 14.16         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2 | 18       | 14.16         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3 | 18       | 14.16         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3 | 18       | 14.16         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 17       | 14.16         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 17       | 14.16         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 6        | 14.16         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 16       | 14.16         |
| (1,653)  | 1:A:2:GLY:H    | 1:A:29:GLY:H   | 17       | 14.16         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 3        | 14.16         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1 | 9        | 14.16         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2 | 9        | 14.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 10       | 14.16         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 10       | 14.16         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 10       | 14.16         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 10       | 14.16         |
| (1,3462) | 1:A:16:GLY:H   | 1:A:22:GLN:HG3  | 1        | 14.16         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 6        | 14.16         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 6        | 14.16         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 15       | 14.16         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 15       | 14.16         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 4        | 14.16         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 19       | 14.16         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 19       | 14.16         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 2        | 14.16         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 2        | 14.16         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 10       | 14.16         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 10       | 14.16         |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 18       | 14.16         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 10       | 14.16         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 10       | 14.16         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 7        | 14.16         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 18       | 14.16         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 19       | 14.16         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 3        | 14.16         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 7        | 14.16         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 7        | 14.16         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 11       | 14.16         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 15       | 14.16         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 7        | 14.16         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 13       | 14.16         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 15       | 14.16         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 18       | 14.16         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 19       | 14.16         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 13       | 14.16         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 13       | 14.16         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 13       | 14.16         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 4        | 14.16         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 4        | 14.16         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 10       | 14.16         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 10       | 14.16         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 6        | 14.16         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 10       | 14.16         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 14       | 14.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 14       | 14.16         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 9        | 14.16         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 2        | 14.16         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 17       | 14.16         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 10       | 14.16         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 10       | 14.16         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 10       | 14.16         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 8        | 14.16         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 3        | 14.16         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 10       | 14.16         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 10       | 14.16         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 16       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 16       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 16       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 16       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 20       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 20       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 20       | 14.15         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 20       | 14.15         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 15       | 14.15         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 15       | 14.15         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 15       | 14.15         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 4        | 14.15         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 4        | 14.15         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 4        | 14.15         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 4        | 14.15         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 4        | 14.15         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 4        | 14.15         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 13       | 14.15         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 13       | 14.15         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 19       | 14.15         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 19       | 14.15         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 13       | 14.15         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 16       | 14.15         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 2        | 14.15         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 11       | 14.15         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 11       | 14.15         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 9        | 14.15         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 9        | 14.15         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 18       | 14.15         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 18       | 14.15         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 15       | 14.15         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 17       | 14.15         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 5        | 14.15         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 1        | 14.15         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 2        | 14.15         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 18       | 14.15         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 18       | 14.15         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 16       | 14.15         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 16       | 14.15         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 8        | 14.15         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 20       | 14.15         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 16       | 14.15         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 17       | 14.15         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 17       | 14.15         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 7        | 14.15         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1  | 15       | 14.15         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2  | 15       | 14.15         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3  | 15       | 14.15         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 11       | 14.15         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 6        | 14.15         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 20       | 14.15         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 7        | 14.15         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 13       | 14.15         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 17       | 14.14         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA2  | 19       | 14.14         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA2  | 19       | 14.14         |
| (1,935)  | 1:A:3:PRO:HG2  | 1:A:29:GLY:HA3  | 19       | 14.14         |
| (1,935)  | 1:A:3:PRO:HG3  | 1:A:29:GLY:HA3  | 19       | 14.14         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 10       | 14.14         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 10       | 14.14         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 7        | 14.14         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 10       | 14.14         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 1        | 14.14         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 1        | 14.14         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 17       | 14.14         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 17       | 14.14         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3  | 16       | 14.14         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 17       | 14.14         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 17       | 14.14         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 3        | 14.14         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 3        | 14.14         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 10       | 14.14         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 10       | 14.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 15       | 14.14         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 15       | 14.14         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 19       | 14.14         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 17       | 14.14         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 2        | 14.14         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 5        | 14.14         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 5        | 14.14         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 13       | 14.14         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 13       | 14.14         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 12       | 14.14         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 12       | 14.14         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 8        | 14.14         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 12       | 14.14         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 16       | 14.14         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 20       | 14.14         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 3        | 14.14         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 2        | 14.14         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 2        | 14.14         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 16       | 14.14         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 16       | 14.14         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 11       | 14.14         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 14       | 14.14         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 10       | 14.14         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 10       | 14.14         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 20       | 14.14         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 3        | 14.14         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 5        | 14.14         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 5        | 14.14         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 19       | 14.14         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 10       | 14.14         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 10       | 14.14         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 9        | 14.14         |
| (1,794)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HB2  | 7        | 14.13         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 1        | 14.13         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 18       | 14.13         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 18       | 14.13         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 17       | 14.13         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 19       | 14.13         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 19       | 14.13         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 4        | 14.13         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 4        | 14.13         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 10       | 14.13         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3 | 10       | 14.13         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 1        | 14.13         |
| (1,3439) | 1:A:15:ARG:HE  | 1:A:30:PRO:HD3 | 4        | 14.13         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1 | 8        | 14.13         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2 | 8        | 14.13         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA  | 3        | 14.13         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA  | 4        | 14.13         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H   | 13       | 14.13         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 9        | 14.13         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2 | 10       | 14.13         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H   | 14       | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 3        | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 3        | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 12       | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 12       | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 19       | 14.13         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 19       | 14.13         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H   | 15       | 14.13         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3 | 1        | 14.13         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA  | 5        | 14.13         |
| (1,2281) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HA  | 17       | 14.13         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 12       | 14.13         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 10       | 14.13         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2 | 17       | 14.13         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3 | 17       | 14.13         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1 | 4        | 14.13         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2 | 4        | 14.13         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3 | 4        | 14.13         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 6        | 14.13         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 6        | 14.13         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 12       | 14.13         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 12       | 14.13         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 1        | 14.13         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 12       | 14.13         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 15       | 14.13         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H   | 13       | 14.13         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 2        | 14.13         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 15       | 14.13         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 15       | 14.13         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE  | 3        | 14.13         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 15       | 14.13         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2 | 20       | 14.13         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1024) | 1:A:3:PRO:HD3   | 1:A:22:GLN:HB3  | 20       | 14.13         |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE   | 6        | 14.12         |
| (1,667)  | 1:A:2:GLY:H     | 1:A:33:CYS:H    | 12       | 14.12         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE21 | 4        | 14.12         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE22 | 4        | 14.12         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 14       | 14.12         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 14       | 14.12         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 14       | 14.12         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1  | 14       | 14.12         |
| (1,3600) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HE1  | 13       | 14.12         |
| (1,3600) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HE2  | 13       | 14.12         |
| (1,3503) | 1:A:16:GLY:HA2  | 1:A:23:TYR:HE1  | 5        | 14.12         |
| (1,3503) | 1:A:16:GLY:HA2  | 1:A:23:TYR:HE2  | 5        | 14.12         |
| (1,3462) | 1:A:16:GLY:H    | 1:A:22:GLN:HG3  | 17       | 14.12         |
| (1,3063) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HE1  | 5        | 14.12         |
| (1,3063) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HE2  | 5        | 14.12         |
| (1,2847) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HA   | 10       | 14.12         |
| (1,2674) | 1:A:11:TRP:HB2  | 1:A:35:HIS:HE1  | 17       | 14.12         |
| (1,2548) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HE21 | 4        | 14.12         |
| (1,2548) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HE22 | 4        | 14.12         |
| (1,2547) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HG3  | 12       | 14.12         |
| (1,2538) | 1:A:10:GLY:HA3  | 1:A:19:CYS:HB3  | 11       | 14.12         |
| (1,2493) | 1:A:10:GLY:HA2  | 1:A:19:CYS:H    | 2        | 14.12         |
| (1,2493) | 1:A:10:GLY:HA2  | 1:A:19:CYS:H    | 4        | 14.12         |
| (1,2493) | 1:A:10:GLY:HA2  | 1:A:19:CYS:H    | 10       | 14.12         |
| (1,2420) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HB2  | 18       | 14.12         |
| (1,2419) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HA   | 7        | 14.12         |
| (1,2306) | 1:A:9:PRO:HG2   | 1:A:15:ARG:HA   | 5        | 14.12         |
| (1,2244) | 1:A:9:PRO:HB2   | 1:A:35:HIS:HE1  | 3        | 14.12         |
| (1,2238) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HE1  | 9        | 14.12         |
| (1,2238) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HE2  | 9        | 14.12         |
| (1,2191) | 1:A:9:PRO:HA    | 1:A:35:HIS:HD2  | 11       | 14.12         |
| (1,2176) | 1:A:9:PRO:HA    | 1:A:27:GLY:HA3  | 15       | 14.12         |
| (1,2153) | 1:A:9:PRO:HA    | 1:A:18:LEU:HG   | 2        | 14.12         |
| (1,2068) | 1:A:8:GLY:H     | 1:A:31:LYS:HB3  | 14       | 14.12         |
| (1,1677) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HE2  | 7        | 14.12         |
| (1,1677) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HE3  | 7        | 14.12         |
| (1,1669) | 1:A:6:GLN:HB3   | 1:A:29:GLY:H    | 1        | 14.12         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG2  | 2        | 14.12         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG3  | 2        | 14.12         |
| (1,1043) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HB3  | 5        | 14.12         |
| (1,1024) | 1:A:3:PRO:HD3   | 1:A:22:GLN:HB2  | 18       | 14.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 18       | 14.12         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 19       | 14.12         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 19       | 14.12         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 9        | 14.11         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 9        | 14.11         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 1        | 14.11         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 1        | 14.11         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 5        | 14.11         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 5        | 14.11         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 17       | 14.11         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 17       | 14.11         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 8        | 14.11         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 19       | 14.11         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 19       | 14.11         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 13       | 14.11         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 3        | 14.11         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 3        | 14.11         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 9        | 14.11         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 9        | 14.11         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 15       | 14.11         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 8        | 14.11         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 6        | 14.11         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 6        | 14.11         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 7        | 14.11         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 7        | 14.11         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 11       | 14.11         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 6        | 14.11         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 4        | 14.11         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 4        | 14.11         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 4        | 14.11         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 2        | 14.11         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 5        | 14.11         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 6        | 14.11         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 15       | 14.11         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 15       | 14.11         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 10       | 14.11         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1  | 16       | 14.11         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 5        | 14.11         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 14       | 14.11         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 8        | 14.11         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 8        | 14.11         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 17       | 14.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 17       | 14.11         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 10       | 14.11         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 4        | 14.11         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 4        | 14.11         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 1        | 14.11         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 11       | 14.11         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 2        | 14.11         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 2        | 14.11         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 7        | 14.11         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 7        | 14.11         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 10       | 14.11         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 2        | 14.11         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 2        | 14.11         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 18       | 14.11         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 8        | 14.11         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 3        | 14.11         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 3        | 14.11         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 3        | 14.11         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 12       | 14.1          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 4        | 14.1          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 4        | 14.1          |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 4        | 14.1          |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 14       | 14.1          |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 14       | 14.1          |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 4        | 14.1          |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 7        | 14.1          |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 18       | 14.1          |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 18       | 14.1          |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 16       | 14.1          |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 16       | 14.1          |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 6        | 14.1          |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 6        | 14.1          |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 8        | 14.1          |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 8        | 14.1          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 2        | 14.1          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 2        | 14.1          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 2        | 14.1          |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 14       | 14.1          |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 14       | 14.1          |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 1        | 14.1          |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 13       | 14.1          |
| (1,2620) | 1:A:11:TRP:HA  | 1:A:22:GLN:HG2  | 9        | 14.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 9        | 14.1          |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 9        | 14.1          |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 9        | 14.1          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 15       | 14.1          |
| (1,2417) | 1:A:9:PRO:HG3  | 1:A:34:ALA:HA   | 17       | 14.1          |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 6        | 14.1          |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 2        | 14.1          |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 10       | 14.1          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 14       | 14.1          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 14       | 14.1          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 14       | 14.1          |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 14       | 14.1          |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 14       | 14.1          |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 9        | 14.1          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 4        | 14.1          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 4        | 14.1          |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 16       | 14.1          |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 5        | 14.1          |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 18       | 14.1          |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 2        | 14.1          |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 14       | 14.1          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 17       | 14.1          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 8        | 14.1          |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 8        | 14.1          |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 6        | 14.1          |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 1        | 14.1          |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 13       | 14.1          |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 20       | 14.1          |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 8        | 14.1          |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 8        | 14.1          |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 17       | 14.1          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 1        | 14.1          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 1        | 14.1          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 1        | 14.1          |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 6        | 14.1          |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 10       | 14.1          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 7        | 14.1          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 7        | 14.1          |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 13       | 14.09         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 13       | 14.09         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 9        | 14.09         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 12       | 14.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 12       | 14.09         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 14       | 14.09         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 20       | 14.09         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 20       | 14.09         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 12       | 14.09         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 15       | 14.09         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 15       | 14.09         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 15       | 14.09         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 2        | 14.09         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 2        | 14.09         |
| (1,2896) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HA   | 17       | 14.09         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE2  | 18       | 14.09         |
| (1,2885) | 1:A:11:TRP:HE1 | 1:A:31:LYS:HE3  | 18       | 14.09         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 20       | 14.09         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 6        | 14.09         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 11       | 14.09         |
| (1,2413) | 1:A:9:PRO:HG3  | 1:A:33:CYS:H    | 17       | 14.09         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 10       | 14.09         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 17       | 14.09         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 15       | 14.09         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 15       | 14.09         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 15       | 14.09         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 16       | 14.09         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 14       | 14.09         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 12       | 14.09         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 14       | 14.09         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB2  | 17       | 14.09         |
| (1,2063) | 1:A:8:GLY:H    | 1:A:30:PRO:HB3  | 17       | 14.09         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 14       | 14.09         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 5        | 14.09         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 5        | 14.09         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 5        | 14.09         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 5        | 14.09         |
| (1,1675) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HB2  | 15       | 14.09         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 10       | 14.09         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 15       | 14.09         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 15       | 14.09         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 18       | 14.09         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 18       | 14.09         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 8        | 14.09         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 12       | 14.09         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 19       | 14.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 19       | 14.09         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 5        | 14.09         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 18       | 14.09         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 18       | 14.09         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 7        | 14.08         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 7        | 14.08         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE1  | 15       | 14.08         |
| (1,862)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HE2  | 15       | 14.08         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 20       | 14.08         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 8        | 14.08         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 8        | 14.08         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 8        | 14.08         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 20       | 14.08         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 20       | 14.08         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 20       | 14.08         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 20       | 14.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 5        | 14.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 5        | 14.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 5        | 14.08         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 11       | 14.08         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 11       | 14.08         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 11       | 14.08         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 4        | 14.08         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 4        | 14.08         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 7        | 14.08         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 7        | 14.08         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 16       | 14.08         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 4        | 14.08         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 4        | 14.08         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 3        | 14.08         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 18       | 14.08         |
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H    | 19       | 14.08         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 2        | 14.08         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 4        | 14.08         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 17       | 14.08         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 1        | 14.08         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 13       | 14.08         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 13       | 14.08         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 2        | 14.08         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 6        | 14.08         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 12       | 14.08         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 12       | 14.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 8        | 14.08         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 12       | 14.08         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 12       | 14.08         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 12       | 14.08         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 8        | 14.08         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 12       | 14.08         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 9        | 14.08         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 9        | 14.08         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 14       | 14.08         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 11       | 14.08         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 11       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 16       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 16       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 17       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 17       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2  | 19       | 14.08         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3  | 19       | 14.08         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 13       | 14.08         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 13       | 14.08         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 7        | 14.08         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 8        | 14.08         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 15       | 14.07         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 15       | 14.07         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 2        | 14.07         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 2        | 14.07         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 7        | 14.07         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 7        | 14.07         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 17       | 14.07         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 17       | 14.07         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ1  | 18       | 14.07         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ2  | 18       | 14.07         |
| (1,3031) | 1:A:12:GLY:H   | 1:A:31:LYS:HZ3  | 18       | 14.07         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 7        | 14.07         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 11       | 14.07         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 10       | 14.07         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 17       | 14.07         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 12       | 14.07         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 18       | 14.07         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 19       | 14.07         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 13       | 14.07         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 13       | 14.07         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 19       | 14.07         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 19       | 14.07         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 5        | 14.07         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 5        | 14.07         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 15       | 14.07         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 15       | 14.07         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 10       | 14.07         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 9        | 14.07         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 4        | 14.07         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 4        | 14.07         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 13       | 14.07         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 13       | 14.07         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 5        | 14.07         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 12       | 14.07         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 12       | 14.07         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 4        | 14.07         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 14       | 14.07         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 19       | 14.07         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 7        | 14.07         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 7        | 14.07         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 4        | 14.07         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 4        | 14.07         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 8        | 14.06         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 8        | 14.06         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 8        | 14.06         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 2        | 14.06         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 2        | 14.06         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 6        | 14.06         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 14       | 14.06         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 18       | 14.06         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 9        | 14.06         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 8        | 14.06         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 8        | 14.06         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 13       | 14.06         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 13       | 14.06         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 14       | 14.06         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 15       | 14.06         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 15       | 14.06         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 7        | 14.06         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 6        | 14.06         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 10       | 14.06         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 13       | 14.06         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 5        | 14.06         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2718) | 1:A:11:TRP:HB3 | 1:A:33:CYS:H   | 16       | 14.06         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 13       | 14.06         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 13       | 14.06         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H   | 4        | 14.06         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 11       | 14.06         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3 | 13       | 14.06         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG  | 17       | 14.06         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 7        | 14.06         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 18       | 14.06         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 19       | 14.06         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 20       | 14.06         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 3        | 14.06         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3 | 5        | 14.06         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 3        | 14.06         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 3        | 14.06         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3 | 12       | 14.06         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3 | 5        | 14.06         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3 | 10       | 14.06         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3 | 11       | 14.06         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 4        | 14.06         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 20       | 14.06         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 9        | 14.06         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 16       | 14.06         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 17       | 14.06         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 1        | 14.06         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H   | 17       | 14.06         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2 | 11       | 14.06         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA2 | 7        | 14.06         |
| (1,1343) | 1:A:4:ASN:HD22 | 1:A:17:GLY:HA3 | 7        | 14.06         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2 | 14       | 14.06         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3 | 14       | 14.06         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 5        | 14.06         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3 | 15       | 14.06         |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2 | 9        | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 12       | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 12       | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 12       | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1 | 14       | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2 | 14       | 14.06         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3 | 14       | 14.06         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2 | 10       | 14.06         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3 | 10       | 14.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 16       | 14.05         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 16       | 14.05         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 20       | 14.05         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 20       | 14.05         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 6        | 14.05         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 6        | 14.05         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 14       | 14.05         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 14       | 14.05         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 14       | 14.05         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 7        | 14.05         |
| (1,4132) | 1:A:22:GLN:H   | 1:A:35:HIS:HE1  | 15       | 14.05         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 2        | 14.05         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 14       | 14.05         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 14       | 14.05         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 16       | 14.05         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 16       | 14.05         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 14       | 14.05         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2  | 14       | 14.05         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 3        | 14.05         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 3        | 14.05         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 2        | 14.05         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 13       | 14.05         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 7        | 14.05         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 2        | 14.05         |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 2        | 14.05         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1  | 11       | 14.05         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 13       | 14.05         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 13       | 14.05         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 4        | 14.05         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 3        | 14.05         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 9        | 14.05         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 14       | 14.05         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 1        | 14.05         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 2        | 14.05         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 5        | 14.05         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 10       | 14.05         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 13       | 14.05         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 2        | 14.05         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 2        | 14.05         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 2        | 14.05         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 17       | 14.05         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 17       | 14.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 16       | 14.05         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 16       | 14.05         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 18       | 14.05         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 18       | 14.05         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 19       | 14.05         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 19       | 14.05         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 18       | 14.05         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3 | 8        | 14.05         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2 | 13       | 14.05         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3 | 13       | 14.05         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 17       | 14.05         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 17       | 14.05         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 17       | 14.05         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 17       | 14.05         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 6        | 14.05         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 10       | 14.05         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 12       | 14.05         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 11       | 14.05         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 14       | 14.05         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA  | 18       | 14.04         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA  | 18       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 12       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 12       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 12       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 12       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 12       | 14.04         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 12       | 14.04         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1 | 8        | 14.04         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2 | 8        | 14.04         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3 | 8        | 14.04         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 3        | 14.04         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1 | 7        | 14.04         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2 | 7        | 14.04         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1 | 2        | 14.04         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1 | 4        | 14.04         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 20       | 14.04         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2 | 11       | 14.04         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3 | 11       | 14.04         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1 | 2        | 14.04         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2 | 2        | 14.04         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 15       | 14.04         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 15       | 14.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1 | 1        | 14.04         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 1        | 14.04         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 9        | 14.04         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 4        | 14.04         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 4        | 14.04         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 7        | 14.04         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H   | 14       | 14.04         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 10       | 14.04         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 10       | 14.04         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 14       | 14.04         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 14       | 14.04         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 11       | 14.04         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 11       | 14.04         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 16       | 14.04         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 20       | 14.04         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 9        | 14.04         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 2        | 14.04         |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA  | 4        | 14.04         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 1        | 14.04         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 1        | 14.04         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 3        | 14.04         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 3        | 14.04         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H   | 19       | 14.04         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 2        | 14.04         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 15       | 14.04         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 15       | 14.04         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 12       | 14.04         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 16       | 14.04         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H   | 6        | 14.04         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 2        | 14.04         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA  | 4        | 14.03         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA  | 4        | 14.03         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 5        | 14.03         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 15       | 14.03         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 7        | 14.03         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 19       | 14.03         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H   | 11       | 14.03         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2 | 1        | 14.03         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3 | 1        | 14.03         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA  | 10       | 14.03         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 10       | 14.03         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 5        | 14.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 5        | 14.03         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 11       | 14.03         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 11       | 14.03         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 6        | 14.03         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 6        | 14.03         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 6        | 14.03         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 14       | 14.03         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 10       | 14.03         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 10       | 14.03         |
| (1,2770) | 1:A:11:TRP:HD1 | 1:A:33:CYS:H    | 17       | 14.03         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 6        | 14.03         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 1        | 14.03         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 4        | 14.03         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 4        | 14.03         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 18       | 14.03         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 9        | 14.03         |
| (1,2496) | 1:A:10:GLY:HA2 | 1:A:22:GLN:H    | 17       | 14.03         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 12       | 14.03         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 15       | 14.03         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 15       | 14.03         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 3        | 14.03         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 6        | 14.03         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 13       | 14.03         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 13       | 14.03         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 18       | 14.03         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 4        | 14.03         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 8        | 14.03         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 5        | 14.03         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 10       | 14.03         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 2        | 14.03         |
| (1,2096) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB2  | 17       | 14.03         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 9        | 14.03         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 9        | 14.03         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 13       | 14.03         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 13       | 14.03         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 8        | 14.03         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 8        | 14.03         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 5        | 14.03         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 5        | 14.03         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 13       | 14.03         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 7        | 14.03         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 7        | 14.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 17       | 14.03         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 17       | 14.03         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 2        | 14.03         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 2        | 14.03         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 16       | 14.03         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 12       | 14.03         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 4        | 14.03         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 11       | 14.03         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 19       | 14.02         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 19       | 14.02         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 8        | 14.02         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 10       | 14.02         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 6        | 14.02         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 5        | 14.02         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 3        | 14.02         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 10       | 14.02         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 10       | 14.02         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 20       | 14.02         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 14       | 14.02         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 14       | 14.02         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 8        | 14.02         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 12       | 14.02         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 18       | 14.02         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 7        | 14.02         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 7        | 14.02         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 2        | 14.02         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 13       | 14.02         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 13       | 14.02         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 6        | 14.02         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 3        | 14.02         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 3        | 14.02         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 17       | 14.02         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 17       | 14.02         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 17       | 14.02         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H    | 15       | 14.02         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 11       | 14.02         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 12       | 14.02         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 20       | 14.02         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 1        | 14.02         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 1        | 14.02         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 11       | 14.02         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 11       | 14.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 5        | 14.02         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 1        | 14.02         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 1        | 14.02         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 11       | 14.02         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 11       | 14.02         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 7        | 14.02         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 19       | 14.02         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 11       | 14.02         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 3        | 14.02         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 4        | 14.02         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 6        | 14.02         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 12       | 14.02         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 12       | 14.02         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 2        | 14.02         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 2        | 14.02         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 19       | 14.02         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 7        | 14.02         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 7        | 14.02         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 8        | 14.02         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 8        | 14.02         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 18       | 14.02         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 19       | 14.02         |
| (1,1784) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HB3  | 20       | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 1        | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 1        | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 18       | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 18       | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 19       | 14.02         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 19       | 14.02         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 17       | 14.02         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 19       | 14.02         |
| (1,1687) | 1:A:6:GLN:HB3  | 1:A:34:ALA:H    | 16       | 14.02         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 3        | 14.02         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 18       | 14.02         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 17       | 14.02         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 9        | 14.02         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 7        | 14.02         |
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 1        | 14.02         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 15       | 14.01         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 15       | 14.01         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 7        | 14.01         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 14       | 14.01         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2 | 14       | 14.01         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 2        | 14.01         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2 | 14       | 14.01         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2 | 14       | 14.01         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3 | 14       | 14.01         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3 | 14       | 14.01         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 3        | 14.01         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 3        | 14.01         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3 | 16       | 14.01         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1 | 14       | 14.01         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2 | 14       | 14.01         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 2        | 14.01         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1 | 3        | 14.01         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2 | 3        | 14.01         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2 | 20       | 14.01         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 3        | 14.01         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 3        | 14.01         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 3        | 14.01         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 18       | 14.01         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2 | 8        | 14.01         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3 | 7        | 14.01         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 18       | 14.01         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 18       | 14.01         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 8        | 14.01         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 8        | 14.01         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2 | 17       | 14.01         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3 | 17       | 14.01         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 6        | 14.01         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 18       | 14.01         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2 | 15       | 14.01         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3 | 15       | 14.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB1 | 2        | 14.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB2 | 2        | 14.01         |
| (1,1858) | 1:A:6:GLN:HE21 | 1:A:34:ALA:HB3 | 2        | 14.01         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 5        | 14.01         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 5        | 14.01         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 16       | 14.01         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 16       | 14.01         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 17       | 14.01         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 11       | 14.01         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 11       | 14.01         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 15       | 14.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 15       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 8        | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 8        | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 11       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 11       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 15       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 15       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 16       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 16       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD2  | 20       | 14.01         |
| (1,1777) | 1:A:6:GLN:HG3  | 1:A:30:PRO:HD3  | 20       | 14.01         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 6        | 14.01         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 12       | 14.01         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 17       | 14.01         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 17       | 14.01         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 2        | 14.01         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 5        | 14.01         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 1        | 14.01         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 1        | 14.01         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 6        | 14.0          |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 6        | 14.0          |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 20       | 14.0          |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 10       | 14.0          |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 10       | 14.0          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 5        | 14.0          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 5        | 14.0          |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 20       | 14.0          |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 20       | 14.0          |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 6        | 14.0          |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 6        | 14.0          |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 3        | 14.0          |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 3        | 14.0          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 10       | 14.0          |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 10       | 14.0          |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 7        | 14.0          |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 6        | 14.0          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 1        | 14.0          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 1        | 14.0          |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 1        | 14.0          |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 6        | 14.0          |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 6        | 14.0          |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 8        | 14.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 8        | 14.0          |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 16       | 14.0          |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 16       | 14.0          |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 20       | 14.0          |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 4        | 14.0          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 2        | 14.0          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 2        | 14.0          |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 7        | 14.0          |
| (1,2799) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG3  | 16       | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 7        | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 7        | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 7        | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 16       | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 16       | 14.0          |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 16       | 14.0          |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 11       | 14.0          |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 7        | 14.0          |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 15       | 14.0          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 3        | 14.0          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 5        | 14.0          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 16       | 14.0          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 18       | 14.0          |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 19       | 14.0          |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 9        | 14.0          |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 9        | 14.0          |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 12       | 14.0          |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 12       | 14.0          |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 15       | 14.0          |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 1        | 14.0          |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 1        | 14.0          |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 3        | 14.0          |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 12       | 14.0          |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 14       | 14.0          |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 14       | 14.0          |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 4        | 14.0          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 5        | 14.0          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 5        | 14.0          |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 12       | 14.0          |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 12       | 14.0          |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 3        | 14.0          |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 9        | 14.0          |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 9        | 14.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 11       | 14.0          |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 11       | 14.0          |
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 15       | 14.0          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 4        | 14.0          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 4        | 14.0          |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 3        | 13.99         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 17       | 13.99         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 17       | 13.99         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1  | 13       | 13.99         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 8        | 13.99         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 19       | 13.99         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 18       | 13.99         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 18       | 13.99         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 19       | 13.99         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 19       | 13.99         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 8        | 13.99         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 4        | 13.99         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 4        | 13.99         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 13       | 13.99         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 13       | 13.99         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 8        | 13.99         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 11       | 13.99         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 11       | 13.99         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 11       | 13.99         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 11       | 13.99         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 2        | 13.99         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 8        | 13.99         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 10       | 13.99         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 2        | 13.99         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 2        | 13.99         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 8        | 13.99         |
| (1,2379) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HA   | 17       | 13.99         |
| (1,2285) | 1:A:9:PRO:HB3  | 1:A:33:CYS:HA   | 17       | 13.99         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 1        | 13.99         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 13       | 13.99         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 16       | 13.99         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 9        | 13.99         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 9        | 13.99         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 20       | 13.99         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 20       | 13.99         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 15       | 13.99         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 6        | 13.99         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 6        | 13.99         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 5        | 13.99         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 16       | 13.99         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 3        | 13.99         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 4        | 13.99         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 7        | 13.98         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 7        | 13.98         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 14       | 13.98         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 14       | 13.98         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 6        | 13.98         |
| (1,3624) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HB3  | 12       | 13.98         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 16       | 13.98         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 16       | 13.98         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 4        | 13.98         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 4        | 13.98         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 12       | 13.98         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 12       | 13.98         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 5        | 13.98         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 5        | 13.98         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE2  | 18       | 13.98         |
| (1,3030) | 1:A:12:GLY:H   | 1:A:31:LYS:HE3  | 18       | 13.98         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 20       | 13.98         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 8        | 13.98         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 4        | 13.98         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 6        | 13.98         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 3        | 13.98         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 18       | 13.98         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 3        | 13.98         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 3        | 13.98         |
| (1,2378) | 1:A:9:PRO:HG3  | 1:A:18:LEU:H    | 6        | 13.98         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 11       | 13.98         |
| (1,2153) | 1:A:9:PRO:HA   | 1:A:18:LEU:HG   | 1        | 13.98         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 17       | 13.98         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 6        | 13.98         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 4        | 13.98         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 17       | 13.98         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 2        | 13.98         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 19       | 13.98         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 13       | 13.98         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 9        | 13.98         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 10       | 13.98         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 10       | 13.98         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1140) | 1:A:4:ASN:HB2  | 1:A:17:GLY:HA2  | 20       | 13.98         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 8        | 13.98         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB1  | 2        | 13.97         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB2  | 2        | 13.97         |
| (1,745)  | 1:A:2:GLY:HA3  | 1:A:34:ALA:HB3  | 2        | 13.97         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 16       | 13.97         |
| (1,4373) | 1:A:23:TYR:HA  | 1:A:35:HIS:HE1  | 13       | 13.97         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 18       | 13.97         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 18       | 13.97         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 16       | 13.97         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 12       | 13.97         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 16       | 13.97         |
| (1,2898) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HE1  | 1        | 13.97         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 3        | 13.97         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 4        | 13.97         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 9        | 13.97         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 13       | 13.97         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 15       | 13.97         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 4        | 13.97         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 15       | 13.97         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 2        | 13.97         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 2        | 13.97         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 13       | 13.97         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 13       | 13.97         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 14       | 13.97         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 14       | 13.97         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 15       | 13.97         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 9        | 13.97         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 20       | 13.97         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 16       | 13.97         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 13.97         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 13.97         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 10       | 13.97         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 10       | 13.97         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 8        | 13.97         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 8        | 13.97         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 16       | 13.97         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 3        | 13.97         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 3        | 13.97         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 3        | 13.97         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 11       | 13.97         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 18       | 13.97         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1163) | 1:A:4:ASN:HB2  | 1:A:29:GLY:HA3  | 20       | 13.97         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 13       | 13.97         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 13       | 13.97         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 13       | 13.97         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 15       | 13.97         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 15       | 13.97         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 15       | 13.97         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 19       | 13.96         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 19       | 13.96         |
| (1,970)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG3  | 16       | 13.96         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 11       | 13.96         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 17       | 13.96         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 13       | 13.96         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 9        | 13.96         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 19       | 13.96         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG2  | 20       | 13.96         |
| (1,660)  | 1:A:2:GLY:H    | 1:A:31:LYS:HG3  | 20       | 13.96         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 20       | 13.96         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 20       | 13.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 5        | 13.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 5        | 13.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 10       | 13.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 10       | 13.96         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG2  | 9        | 13.96         |
| (1,3438) | 1:A:15:ARG:HE  | 1:A:30:PRO:HG3  | 9        | 13.96         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 7        | 13.96         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 12       | 13.96         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 16       | 13.96         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 18       | 13.96         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3  | 19       | 13.96         |
| (1,2915) | 1:A:11:TRP:HZ3 | 1:A:22:GLN:HA   | 3        | 13.96         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 2        | 13.96         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 10       | 13.96         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 17       | 13.96         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 17       | 13.96         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 16       | 13.96         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 5        | 13.96         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 14       | 13.96         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 4        | 13.96         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 4        | 13.96         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 4        | 13.96         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 5        | 13.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 5        | 13.96         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 10       | 13.96         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 10       | 13.96         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 19       | 13.96         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 17       | 13.96         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 17       | 13.96         |
| (1,2066) | 1:A:8:GLY:H    | 1:A:31:LYS:HB2  | 17       | 13.96         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 3        | 13.96         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 3        | 13.96         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 18       | 13.96         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 2        | 13.96         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 5        | 13.96         |
| (1,1736) | 1:A:6:GLN:HG2  | 1:A:35:HIS:HE1  | 1        | 13.96         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 3        | 13.96         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 3        | 13.96         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 17       | 13.96         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 17       | 13.96         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 6        | 13.96         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 14       | 13.96         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 4        | 13.96         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 4        | 13.96         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 4        | 13.96         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 20       | 13.96         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE21 | 19       | 13.95         |
| (1,693)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HE22 | 19       | 13.95         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 4        | 13.95         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 6        | 13.95         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 8        | 13.95         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 8        | 13.95         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 2        | 13.95         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 2        | 13.95         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 2        | 13.95         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 3        | 13.95         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 4        | 13.95         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 6        | 13.95         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 3        | 13.95         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 3        | 13.95         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 6        | 13.95         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 6        | 13.95         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 1        | 13.95         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 3        | 13.95         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 3        | 13.95         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 3        | 13.95         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 4        | 13.95         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 2        | 13.95         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 6        | 13.95         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 10       | 13.95         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 1        | 13.95         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 6        | 13.95         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 6        | 13.95         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 20       | 13.95         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 20       | 13.95         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 6        | 13.95         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 6        | 13.95         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 6        | 13.95         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 6        | 13.95         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 6        | 13.95         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 6        | 13.95         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3  | 19       | 13.95         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 3        | 13.95         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 3        | 13.95         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 4        | 13.95         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 13       | 13.95         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 4        | 13.95         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 4        | 13.95         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 3        | 13.95         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 3        | 13.95         |
| (1,1232) | 1:A:4:ASN:HB3  | 1:A:31:LYS:H    | 19       | 13.95         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 8        | 13.95         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 8        | 13.95         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 8        | 13.95         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 19       | 13.95         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 19       | 13.95         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 19       | 13.95         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 12       | 13.95         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 12       | 13.95         |
| (1,939)  | 1:A:3:PRO:HG2  | 1:A:32:TYR:HA   | 2        | 13.94         |
| (1,939)  | 1:A:3:PRO:HG3  | 1:A:32:TYR:HA   | 2        | 13.94         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 11       | 13.94         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 11       | 13.94         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 11       | 13.94         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 11       | 13.94         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 12       | 13.94         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 2        | 13.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 18       | 13.94         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 14       | 13.94         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 14       | 13.94         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 5        | 13.94         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 5        | 13.94         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 8        | 13.94         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 8        | 13.94         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 20       | 13.94         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 20       | 13.94         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 18       | 13.94         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 10       | 13.94         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 10       | 13.94         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 4        | 13.94         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 16       | 13.94         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 16       | 13.94         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 3        | 13.94         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 6        | 13.94         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 6        | 13.94         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 13       | 13.94         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 13       | 13.94         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 15       | 13.94         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2  | 3        | 13.94         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 1        | 13.94         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 18       | 13.94         |
| (1,2721) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HD2  | 1        | 13.94         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 1        | 13.94         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 1        | 13.94         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 7        | 13.94         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 7        | 13.94         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 5        | 13.94         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 9        | 13.94         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 13       | 13.94         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 9        | 13.94         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 9        | 13.94         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 20       | 13.94         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 20       | 13.94         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 13       | 13.94         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 3        | 13.94         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 3        | 13.94         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 6        | 13.94         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 6        | 13.94         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 12       | 13.94         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3 | 13       | 13.94         |
| (1,1901) | 1:A:6:GLN:HE22 | 1:A:28:SER:HB3 | 20       | 13.94         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 4        | 13.94         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 4        | 13.94         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 19       | 13.94         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 19       | 13.94         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2 | 5        | 13.94         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3 | 5        | 13.94         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 20       | 13.94         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2 | 6        | 13.94         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3 | 6        | 13.94         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 3        | 13.94         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 3        | 13.94         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 8        | 13.94         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 2        | 13.94         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 18       | 13.94         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 19       | 13.94         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 7        | 13.94         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 16       | 13.94         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3 | 18       | 13.94         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H   | 9        | 13.93         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 11       | 13.93         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 11       | 13.93         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 4        | 13.93         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 4        | 13.93         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2 | 4        | 13.93         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3 | 4        | 13.93         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H   | 12       | 13.93         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H   | 12       | 13.93         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2 | 15       | 13.93         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 11       | 13.93         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 2        | 13.93         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 10       | 13.93         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 10       | 13.93         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 10       | 13.93         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 10       | 13.93         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 10       | 13.93         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2 | 3        | 13.93         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3 | 3        | 13.93         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1 | 9        | 13.93         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2 | 9        | 13.93         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3 | 9        | 13.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 1        | 13.93         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 1        | 13.93         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 8        | 13.93         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 5        | 13.93         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 12       | 13.93         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 6        | 13.93         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 6        | 13.93         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 6        | 13.93         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 13       | 13.93         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 13       | 13.93         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 6        | 13.93         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 6        | 13.93         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 9        | 13.93         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 9        | 13.93         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 7        | 13.93         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 7        | 13.93         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 3        | 13.93         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 3        | 13.93         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 3        | 13.93         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 3        | 13.93         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 20       | 13.93         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 20       | 13.93         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 3        | 13.93         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 3        | 13.93         |
| (1,2306) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HA   | 1        | 13.93         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 10       | 13.93         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 10       | 13.93         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 10       | 13.93         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 10       | 13.93         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 16       | 13.93         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 10       | 13.93         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 10       | 13.93         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2  | 14       | 13.93         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3  | 14       | 13.93         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 8        | 13.93         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 2        | 13.93         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 2        | 13.93         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 14       | 13.93         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 14       | 13.93         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 4        | 13.93         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 12       | 13.93         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 16       | 13.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 15       | 13.93         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 16       | 13.93         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 6        | 13.93         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 6        | 13.93         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 6        | 13.93         |
| (1,1431) | 1:A:5:GLY:H    | 1:A:22:GLN:HE22 | 7        | 13.93         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 13       | 13.93         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 5        | 13.93         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 17       | 13.93         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 15       | 13.93         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB2  | 15       | 13.93         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB3  | 15       | 13.93         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 5        | 13.93         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 5        | 13.93         |
| (1,1043) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HB3  | 19       | 13.93         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 9        | 13.93         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 9        | 13.93         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 5        | 13.92         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 5        | 13.92         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 11       | 13.92         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 11       | 13.92         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 14       | 13.92         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 14       | 13.92         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 18       | 13.92         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 18       | 13.92         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 20       | 13.92         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 20       | 13.92         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 20       | 13.92         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 9        | 13.92         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 17       | 13.92         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 17       | 13.92         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 18       | 13.92         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 18       | 13.92         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 19       | 13.92         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 19       | 13.92         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 19       | 13.92         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 19       | 13.92         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 6        | 13.92         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 6        | 13.92         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 6        | 13.92         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 3        | 13.92         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 3        | 13.92         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 3        | 13.92         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 10       | 13.92         |
| (1,2545) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG2  | 9        | 13.92         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 12       | 13.92         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 18       | 13.92         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 18       | 13.92         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 19       | 13.92         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 19       | 13.92         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 11       | 13.92         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 8        | 13.92         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 8        | 13.92         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 1        | 13.92         |
| (1,2129) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB2  | 17       | 13.92         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 14       | 13.92         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 14       | 13.92         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 16       | 13.92         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 16       | 13.92         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 12       | 13.92         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 18       | 13.92         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 5        | 13.92         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 5        | 13.92         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 1        | 13.92         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 1        | 13.92         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 3        | 13.92         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 10       | 13.92         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 7        | 13.92         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 13       | 13.92         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 3        | 13.92         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 8        | 13.92         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 13       | 13.92         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 8        | 13.92         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 8        | 13.92         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 6        | 13.92         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 13       | 13.92         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 17       | 13.91         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 5        | 13.91         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 14       | 13.91         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 14       | 13.91         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 12       | 13.91         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 12       | 13.91         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 14       | 13.91         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 16       | 13.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 16       | 13.91         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA  | 4        | 13.91         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 20       | 13.91         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 5        | 13.91         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 5        | 13.91         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 5        | 13.91         |
| (1,3019) | 1:A:12:GLY:H   | 1:A:28:SER:HB3 | 17       | 13.91         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 11       | 13.91         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 2        | 13.91         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 5        | 13.91         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 3        | 13.91         |
| (1,2797) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HG2 | 10       | 13.91         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 5        | 13.91         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 5        | 13.91         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 5        | 13.91         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 14       | 13.91         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2 | 7        | 13.91         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3 | 7        | 13.91         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H   | 20       | 13.91         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 11       | 13.91         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 11       | 13.91         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 20       | 13.91         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 20       | 13.91         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 11       | 13.91         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 11       | 13.91         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2 | 4        | 13.91         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3 | 4        | 13.91         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 2        | 13.91         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 15       | 13.91         |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 15       | 13.91         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H   | 2        | 13.91         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 9        | 13.91         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2 | 10       | 13.91         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3 | 10       | 13.91         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3 | 6        | 13.91         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 3        | 13.91         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 3        | 13.91         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3 | 7        | 13.91         |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3 | 10       | 13.91         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 7        | 13.91         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 16       | 13.91         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA  | 2        | 13.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H   | 9        | 13.9          |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 17       | 13.9          |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H   | 16       | 13.9          |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 18       | 13.9          |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2 | 17       | 13.9          |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3 | 17       | 13.9          |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 15       | 13.9          |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 15       | 13.9          |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 4        | 13.9          |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 10       | 13.9          |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 10       | 13.9          |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 16       | 13.9          |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1 | 12       | 13.9          |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2 | 12       | 13.9          |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 18       | 13.9          |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 19       | 13.9          |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 20       | 13.9          |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H   | 11       | 13.9          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2 | 20       | 13.9          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3 | 20       | 13.9          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 7        | 13.9          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 18       | 13.9          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 19       | 13.9          |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2 | 4        | 13.9          |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3 | 4        | 13.9          |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 2        | 13.9          |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H   | 14       | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2 | 8        | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3 | 8        | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2 | 12       | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3 | 12       | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2 | 13       | 13.9          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3 | 13       | 13.9          |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2 | 16       | 13.9          |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3 | 16       | 13.9          |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 17       | 13.9          |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 13       | 13.9          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2 | 11       | 13.9          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3 | 11       | 13.9          |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2 | 13       | 13.9          |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3 | 2        | 13.9          |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 19       | 13.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 4        | 13.9          |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 4        | 13.9          |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 14       | 13.9          |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 14       | 13.9          |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 4        | 13.9          |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 19       | 13.9          |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 19       | 13.9          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 20       | 13.9          |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 20       | 13.9          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 11       | 13.9          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 11       | 13.9          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 11       | 13.9          |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 17       | 13.9          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 2        | 13.9          |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 2        | 13.9          |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 20       | 13.89         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 20       | 13.89         |
| (1,3558) | 1:A:17:GLY:H   | 1:A:22:GLN:HG2  | 17       | 13.89         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 2        | 13.89         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 2        | 13.89         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 2        | 13.89         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 15       | 13.89         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 15       | 13.89         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 3        | 13.89         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 18       | 13.89         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE1  | 13       | 13.89         |
| (1,3299) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HE2  | 13       | 13.89         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 10       | 13.89         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 10       | 13.89         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 20       | 13.89         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 20       | 13.89         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 6        | 13.89         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 14       | 13.89         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 9        | 13.89         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 12       | 13.89         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 9        | 13.89         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 3        | 13.89         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3  | 13       | 13.89         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 16       | 13.89         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 18       | 13.89         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 19       | 13.89         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 18       | 13.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 18       | 13.89         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 19       | 13.89         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 19       | 13.89         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 1        | 13.89         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 1        | 13.89         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 19       | 13.89         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 8        | 13.89         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 18       | 13.89         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 5        | 13.89         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 5        | 13.89         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 10       | 13.89         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 12       | 13.89         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 16       | 13.89         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 16       | 13.89         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 14       | 13.89         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 14       | 13.89         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 2        | 13.89         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 2        | 13.89         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 11       | 13.89         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 11       | 13.89         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 1        | 13.89         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 15       | 13.89         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 3        | 13.89         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 10       | 13.89         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 10       | 13.89         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 10       | 13.89         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 16       | 13.89         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 11       | 13.89         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 10       | 13.89         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 10       | 13.89         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 9        | 13.89         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 8        | 13.89         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 8        | 13.89         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 1        | 13.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 10       | 13.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 10       | 13.89         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 10       | 13.89         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 16       | 13.89         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 14       | 13.89         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 14       | 13.89         |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 14       | 13.88         |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 12       | 13.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1  | 15       | 13.88         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 19       | 13.88         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 19       | 13.88         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 15       | 13.88         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 15       | 13.88         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 5        | 13.88         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 14       | 13.88         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 14       | 13.88         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 20       | 13.88         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 20       | 13.88         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2  | 4        | 13.88         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 4        | 13.88         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 20       | 13.88         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 20       | 13.88         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 6        | 13.88         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 8        | 13.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 6        | 13.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 6        | 13.88         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 6        | 13.88         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 18       | 13.88         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 18       | 13.88         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 17       | 13.88         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 17       | 13.88         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 6        | 13.88         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 6        | 13.88         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 6        | 13.88         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 2        | 13.88         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 10       | 13.88         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 5        | 13.88         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 5        | 13.88         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 3        | 13.88         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 3        | 13.88         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 4        | 13.88         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 16       | 13.88         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 12       | 13.88         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 8        | 13.88         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 11       | 13.88         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 14       | 13.88         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 10       | 13.88         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 12       | 13.88         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 7        | 13.88         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 7        | 13.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 15       | 13.88         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 15       | 13.88         |
| (1,2289) | 1:A:9:PRO:HB3  | 1:A:35:HIS:H    | 17       | 13.88         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 5        | 13.88         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 2        | 13.88         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H    | 11       | 13.88         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 14       | 13.88         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 14       | 13.88         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 1        | 13.88         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 1        | 13.88         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 9        | 13.88         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 14       | 13.88         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 14       | 13.88         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 14       | 13.88         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 17       | 13.88         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 8        | 13.88         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 3        | 13.88         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 3        | 13.88         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 5        | 13.88         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 5        | 13.88         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB2  | 6        | 13.88         |
| (1,1024) | 1:A:3:PRO:HD3  | 1:A:22:GLN:HB3  | 6        | 13.88         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 8        | 13.87         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 15       | 13.87         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 15       | 13.87         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 15       | 13.87         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 15       | 13.87         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 6        | 13.87         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 6        | 13.87         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 7        | 13.87         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 7        | 13.87         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 9        | 13.87         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 9        | 13.87         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE1  | 2        | 13.87         |
| (1,3503) | 1:A:16:GLY:HA2 | 1:A:23:TYR:HE2  | 2        | 13.87         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 5        | 13.87         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 5        | 13.87         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 6        | 13.87         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 1        | 13.87         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 5        | 13.87         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 5        | 13.87         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 5        | 13.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H   | 5        | 13.87         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 10       | 13.87         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 3        | 13.87         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 5        | 13.87         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 8        | 13.87         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1 | 6        | 13.87         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2 | 6        | 13.87         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3 | 6        | 13.87         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 3        | 13.87         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 4        | 13.87         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1 | 15       | 13.87         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2 | 15       | 13.87         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 5        | 13.87         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 5        | 13.87         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1 | 2        | 13.87         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2 | 2        | 13.87         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 2        | 13.87         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H   | 10       | 13.87         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 10       | 13.87         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3 | 2        | 13.87         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 2        | 13.87         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 2        | 13.87         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 2        | 13.87         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H   | 19       | 13.87         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 6        | 13.87         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 6        | 13.87         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 6        | 13.87         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 6        | 13.87         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 1        | 13.87         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 1        | 13.87         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 9        | 13.87         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 18       | 13.87         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA  | 5        | 13.87         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA  | 13       | 13.87         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2 | 4        | 13.87         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3 | 4        | 13.87         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2 | 11       | 13.87         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 11       | 13.87         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1 | 16       | 13.87         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2 | 16       | 13.87         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H   | 1        | 13.86         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 4        | 13.86         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 12       | 13.86         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 12       | 13.86         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 7        | 13.86         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 7        | 13.86         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 19       | 13.86         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 4        | 13.86         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 8        | 13.86         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 8        | 13.86         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 17       | 13.86         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 11       | 13.86         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 15       | 13.86         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 9        | 13.86         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 9        | 13.86         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 20       | 13.86         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 2        | 13.86         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 2        | 13.86         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 4        | 13.86         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 2        | 13.86         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 2        | 13.86         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 11       | 13.86         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 11       | 13.86         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 7        | 13.86         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 12       | 13.86         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 3        | 13.86         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 6        | 13.86         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 14       | 13.86         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 14       | 13.86         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 19       | 13.86         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 19       | 13.86         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 5        | 13.86         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 18       | 13.86         |
| (1,1669) | 1:A:6:GLN:HB3  | 1:A:29:GLY:H    | 20       | 13.86         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 19       | 13.86         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 5        | 13.86         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 5        | 13.86         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 13       | 13.86         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 13       | 13.86         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 19       | 13.86         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 13       | 13.86         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 9        | 13.86         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 9        | 13.86         |
| (1,1112) | 1:A:4:ASN:H    | 1:A:34:ALA:HB1  | 2        | 13.86         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1112) | 1:A:4:ASN:H     | 1:A:34:ALA:HB2 | 2        | 13.86         |
| (1,1112) | 1:A:4:ASN:H     | 1:A:34:ALA:HB3 | 2        | 13.86         |
| (1,1082) | 1:A:4:ASN:H     | 1:A:22:GLN:HG3 | 11       | 13.86         |
| (1,1028) | 1:A:3:PRO:HD3   | 1:A:23:TYR:HE1 | 8        | 13.86         |
| (1,1028) | 1:A:3:PRO:HD3   | 1:A:23:TYR:HE2 | 8        | 13.86         |
| (1,1024) | 1:A:3:PRO:HD3   | 1:A:22:GLN:HB2 | 5        | 13.86         |
| (1,1024) | 1:A:3:PRO:HD3   | 1:A:22:GLN:HB3 | 5        | 13.86         |
| (1,523)  | 1:A:1:SER:HA    | 1:A:22:GLN:HG3 | 11       | 13.85         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 8        | 13.85         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 15       | 13.85         |
| (1,3600) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HE1 | 10       | 13.85         |
| (1,3600) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HE2 | 10       | 13.85         |
| (1,3465) | 1:A:16:GLY:H    | 1:A:23:TYR:HD1 | 16       | 13.85         |
| (1,3465) | 1:A:16:GLY:H    | 1:A:23:TYR:HD2 | 16       | 13.85         |
| (1,3332) | 1:A:15:ARG:HB3  | 1:A:23:TYR:HB2 | 3        | 13.85         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE1 | 11       | 13.85         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE2 | 11       | 13.85         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1 | 6        | 13.85         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2 | 6        | 13.85         |
| (1,2940) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HA  | 3        | 13.85         |
| (1,2940) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HA  | 6        | 13.85         |
| (1,2919) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:HA3 | 4        | 13.85         |
| (1,2797) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HG2 | 15       | 13.85         |
| (1,2584) | 1:A:11:TRP:H    | 1:A:17:GLY:H   | 10       | 13.85         |
| (1,2569) | 1:A:10:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 13.85         |
| (1,2569) | 1:A:10:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 13.85         |
| (1,2545) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HG2 | 6        | 13.85         |
| (1,2498) | 1:A:10:GLY:HA2  | 1:A:22:GLN:HB2 | 9        | 13.85         |
| (1,2498) | 1:A:10:GLY:HA2  | 1:A:22:GLN:HB3 | 9        | 13.85         |
| (1,2238) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HE1 | 4        | 13.85         |
| (1,2238) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HE2 | 4        | 13.85         |
| (1,2209) | 1:A:9:PRO:HB2   | 1:A:19:CYS:H   | 4        | 13.85         |
| (1,2147) | 1:A:9:PRO:HA    | 1:A:15:ARG:HB3 | 4        | 13.85         |
| (1,2131) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HB3 | 2        | 13.85         |
| (1,2068) | 1:A:8:GLY:H     | 1:A:31:LYS:HB3 | 4        | 13.85         |
| (1,1706) | 1:A:6:GLN:HG2   | 1:A:16:GLY:H   | 7        | 13.85         |
| (1,1706) | 1:A:6:GLN:HG2   | 1:A:16:GLY:H   | 19       | 13.85         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ1 | 15       | 13.85         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ2 | 15       | 13.85         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ3 | 15       | 13.85         |
| (1,1669) | 1:A:6:GLN:HB3   | 1:A:29:GLY:H   | 16       | 13.85         |
| (1,1462) | 1:A:5:GLY:HA2   | 1:A:30:PRO:HG2 | 12       | 13.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 12       | 13.85         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 5        | 13.85         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 5        | 13.85         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 5        | 13.85         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 19       | 13.85         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 17       | 13.85         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 5        | 13.85         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 7        | 13.85         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 19       | 13.85         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2  | 15       | 13.84         |
| (1,691)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HG2  | 10       | 13.84         |
| (1,667)  | 1:A:2:GLY:H    | 1:A:33:CYS:H    | 17       | 13.84         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 3        | 13.84         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 3        | 13.84         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 5        | 13.84         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 20       | 13.84         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 2        | 13.84         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 2        | 13.84         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 20       | 13.84         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 20       | 13.84         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 14       | 13.84         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 14       | 13.84         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 13       | 13.84         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 13       | 13.84         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 2        | 13.84         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 17       | 13.84         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 3        | 13.84         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 3        | 13.84         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 19       | 13.84         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 19       | 13.84         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 10       | 13.84         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 10       | 13.84         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 4        | 13.84         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 5        | 13.84         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 5        | 13.84         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 4        | 13.84         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 1        | 13.84         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 7        | 13.84         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 6        | 13.84         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 20       | 13.84         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 18       | 13.84         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 19       | 13.84         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 3        | 13.84         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 3        | 13.84         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 14       | 13.84         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 14       | 13.84         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 4        | 13.84         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 5        | 13.84         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 5        | 13.84         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 2        | 13.84         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 2        | 13.84         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 13       | 13.84         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 13       | 13.84         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 17       | 13.84         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 18       | 13.84         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 9        | 13.84         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 18       | 13.84         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 15       | 13.84         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 15       | 13.84         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 11       | 13.84         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 11       | 13.84         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 11       | 13.84         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG2  | 20       | 13.84         |
| (1,1300) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HG3  | 20       | 13.84         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 14       | 13.84         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 14       | 13.84         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 12       | 13.84         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 2        | 13.84         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 18       | 13.84         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 12       | 13.84         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 12       | 13.84         |
| (1,1010) | 1:A:3:PRO:HD3  | 1:A:17:GLY:H    | 15       | 13.84         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 13       | 13.83         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 13       | 13.83         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 7        | 13.83         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 7        | 13.83         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 1        | 13.83         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 6        | 13.83         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 6        | 13.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 13       | 13.83         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 13       | 13.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 13       | 13.83         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 13       | 13.83         |
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE1  | 13       | 13.83         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3334) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HE2 | 13       | 13.83         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 14       | 13.83         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1 | 1        | 13.83         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2 | 1        | 13.83         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 1        | 13.83         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 19       | 13.83         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 2        | 13.83         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 6        | 13.83         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 15       | 13.83         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 15       | 13.83         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 5        | 13.83         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3 | 12       | 13.83         |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H   | 16       | 13.83         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1 | 6        | 13.83         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2 | 6        | 13.83         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1 | 12       | 13.83         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2 | 12       | 13.83         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H   | 8        | 13.83         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD1 | 17       | 13.83         |
| (1,2517) | 1:A:10:GLY:HA2 | 1:A:32:TYR:HD2 | 17       | 13.83         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA  | 7        | 13.83         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 8        | 13.83         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 20       | 13.83         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H   | 3        | 13.83         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 1        | 13.83         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3 | 3        | 13.83         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2 | 4        | 13.83         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3 | 4        | 13.83         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 4        | 13.83         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 2        | 13.83         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 2        | 13.83         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2 | 14       | 13.83         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3 | 14       | 13.83         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2 | 16       | 13.83         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 16       | 13.83         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 18       | 13.83         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 19       | 13.83         |
| (1,1732) | 1:A:6:GLN:HG2  | 1:A:33:CYS:H   | 20       | 13.83         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 16       | 13.83         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2 | 4        | 13.83         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3 | 4        | 13.83         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 12       | 13.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 12       | 13.83         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 9        | 13.83         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 9        | 13.83         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 11       | 13.83         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 11       | 13.83         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 1        | 13.83         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 1        | 13.83         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 1        | 13.83         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2  | 4        | 13.83         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3  | 4        | 13.83         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 9        | 13.83         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 16       | 13.83         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 15       | 13.83         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 15       | 13.83         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 13       | 13.83         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 13       | 13.83         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 17       | 13.82         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 17       | 13.82         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 15       | 13.82         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 18       | 13.82         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 18       | 13.82         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 18       | 13.82         |
| (1,674)  | 1:A:2:GLY:H    | 1:A:35:HIS:HE1  | 1        | 13.82         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 7        | 13.82         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 5        | 13.82         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 1        | 13.82         |
| (1,3461) | 1:A:16:GLY:H   | 1:A:22:GLN:HA   | 17       | 13.82         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 5        | 13.82         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 5        | 13.82         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 8        | 13.82         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 9        | 13.82         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 9        | 13.82         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 18       | 13.82         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 18       | 13.82         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 11       | 13.82         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 11       | 13.82         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 11       | 13.82         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 2        | 13.82         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 4        | 13.82         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 10       | 13.82         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 4        | 13.82         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 4        | 13.82         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 1        | 13.82         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 1        | 13.82         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 20       | 13.82         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 1        | 13.82         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 20       | 13.82         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 20       | 13.82         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 16       | 13.82         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 16       | 13.82         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 8        | 13.82         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 8        | 13.82         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 9        | 13.82         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 9        | 13.82         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 6        | 13.82         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 19       | 13.82         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 19       | 13.82         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD2  | 18       | 13.82         |
| (1,2099) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HD3  | 18       | 13.82         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 7        | 13.82         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 7        | 13.82         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 7        | 13.82         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 3        | 13.82         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 3        | 13.82         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 14       | 13.82         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 5        | 13.82         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 17       | 13.82         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 13       | 13.81         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 20       | 13.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ1  | 8        | 13.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ2  | 8        | 13.81         |
| (1,821)  | 1:A:3:PRO:HB2  | 1:A:31:LYS:HZ3  | 8        | 13.81         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 10       | 13.81         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 10       | 13.81         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 2        | 13.81         |
| (1,4132) | 1:A:22:GLN:H   | 1:A:35:HIS:HE1  | 8        | 13.81         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 2        | 13.81         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 2        | 13.81         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 13       | 13.81         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 13       | 13.81         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 13       | 13.81         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 8        | 13.81         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 1        | 13.81         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 1        | 13.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 10       | 13.81         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 10       | 13.81         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 14       | 13.81         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 14       | 13.81         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 8        | 13.81         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 18       | 13.81         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 19       | 13.81         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 4        | 13.81         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 4        | 13.81         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 4        | 13.81         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 9        | 13.81         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 9        | 13.81         |
| (1,2538) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HB3  | 17       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 16       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 16       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 18       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 18       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 19       | 13.81         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 19       | 13.81         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 6        | 13.81         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 3        | 13.81         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 3        | 13.81         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 14       | 13.81         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 14       | 13.81         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 4        | 13.81         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 4        | 13.81         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 7        | 13.81         |
| (1,1785) | 1:A:6:GLN:HG3  | 1:A:34:ALA:H    | 16       | 13.81         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 7        | 13.81         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 12       | 13.81         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 12       | 13.81         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 3        | 13.81         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 3        | 13.81         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 16       | 13.81         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 11       | 13.81         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 2        | 13.81         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 11       | 13.81         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 6        | 13.81         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 6        | 13.81         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 10       | 13.81         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 10       | 13.81         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 9        | 13.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 9        | 13.81         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 11       | 13.81         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 11       | 13.81         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 3        | 13.8          |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 20       | 13.8          |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 4        | 13.8          |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 10       | 13.8          |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 20       | 13.8          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 3        | 13.8          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 3        | 13.8          |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 12       | 13.8          |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 14       | 13.8          |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 14       | 13.8          |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 19       | 13.8          |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 12       | 13.8          |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 12       | 13.8          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 2        | 13.8          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 2        | 13.8          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 17       | 13.8          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 17       | 13.8          |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 5        | 13.8          |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 2        | 13.8          |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 2        | 13.8          |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 2        | 13.8          |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 14       | 13.8          |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 17       | 13.8          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG2  | 14       | 13.8          |
| (1,2765) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HG3  | 14       | 13.8          |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 8        | 13.8          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 8        | 13.8          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 8        | 13.8          |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 18       | 13.8          |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 14       | 13.8          |
| (1,2668) | 1:A:11:TRP:HB2 | 1:A:32:TYR:H    | 17       | 13.8          |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 16       | 13.8          |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 15       | 13.8          |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 5        | 13.8          |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 5        | 13.8          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 20       | 13.8          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 20       | 13.8          |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 4        | 13.8          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 9        | 13.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 9        | 13.8          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 9        | 13.8          |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 7        | 13.8          |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 7        | 13.8          |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 12       | 13.8          |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 12       | 13.8          |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 3        | 13.8          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 2        | 13.8          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 2        | 13.8          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 10       | 13.8          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 10       | 13.8          |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 5        | 13.8          |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 18       | 13.8          |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 19       | 13.8          |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 8        | 13.8          |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 8        | 13.8          |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 14       | 13.8          |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 14       | 13.8          |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 19       | 13.8          |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 19       | 13.8          |
| (1,1359) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG3  | 3        | 13.8          |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 18       | 13.8          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2  | 3        | 13.8          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3  | 3        | 13.8          |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 9        | 13.8          |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 2        | 13.79         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 4        | 13.79         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 4        | 13.79         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 3        | 13.79         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 3        | 13.79         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 3        | 13.79         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 3        | 13.79         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 7        | 13.79         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 7        | 13.79         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 9        | 13.79         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 1        | 13.79         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 11       | 13.79         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 11       | 13.79         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 8        | 13.79         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 8        | 13.79         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 14       | 13.79         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 3        | 13.79         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 3        | 13.79         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 4        | 13.79         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 4        | 13.79         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 10       | 13.79         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 10       | 13.79         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 4        | 13.79         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE1  | 14       | 13.79         |
| (1,3063) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HE2  | 14       | 13.79         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 3        | 13.79         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 16       | 13.79         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB2  | 1        | 13.79         |
| (1,2959) | 1:A:11:TRP:HZ2 | 1:A:35:HIS:HB3  | 1        | 13.79         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 14       | 13.79         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 10       | 13.79         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 10       | 13.79         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 10       | 13.79         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 10       | 13.79         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 10       | 13.79         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 16       | 13.79         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 18       | 13.79         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 19       | 13.79         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 9        | 13.79         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 19       | 13.79         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 14       | 13.79         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 14       | 13.79         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 3        | 13.79         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 1        | 13.79         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 3        | 13.79         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 3        | 13.79         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 9        | 13.79         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 20       | 13.79         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 7        | 13.79         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 7        | 13.79         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 2        | 13.79         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 2        | 13.79         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 14       | 13.79         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 6        | 13.79         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 2        | 13.79         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 2        | 13.79         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 3        | 13.79         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 3        | 13.79         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 6        | 13.79         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 6        | 13.79         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 13       | 13.79         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 13       | 13.79         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE21 | 7        | 13.78         |
| (1,971)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HE22 | 7        | 13.78         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 16       | 13.78         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 15       | 13.78         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 15       | 13.78         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 16       | 13.78         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 16       | 13.78         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 13       | 13.78         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 13       | 13.78         |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 15       | 13.78         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 19       | 13.78         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 8        | 13.78         |
| (1,3365) | 1:A:15:ARG:HG2 | 1:A:22:GLN:HE22 | 19       | 13.78         |
| (1,3365) | 1:A:15:ARG:HG3 | 1:A:22:GLN:HE22 | 19       | 13.78         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 14       | 13.78         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 14       | 13.78         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 8        | 13.78         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 8        | 13.78         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 8        | 13.78         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 13       | 13.78         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 20       | 13.78         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 12       | 13.78         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 12       | 13.78         |
| (1,2808) | 1:A:11:TRP:HE3 | 1:A:28:SER:H    | 16       | 13.78         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 13       | 13.78         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 13       | 13.78         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 3        | 13.78         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 15       | 13.78         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 15       | 13.78         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 13       | 13.78         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 2        | 13.78         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 2        | 13.78         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 6        | 13.78         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 6        | 13.78         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 16       | 13.78         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 18       | 13.78         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 8        | 13.78         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 12       | 13.78         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 12       | 13.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 10       | 13.78         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 10       | 13.78         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 13       | 13.78         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 20       | 13.78         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 11       | 13.78         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 15       | 13.78         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 2        | 13.78         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 2        | 13.78         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 18       | 13.77         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 1        | 13.77         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 17       | 13.77         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 17       | 13.77         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 18       | 13.77         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 18       | 13.77         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 15       | 13.77         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 13       | 13.77         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 20       | 13.77         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 14       | 13.77         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 6        | 13.77         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 6        | 13.77         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 6        | 13.77         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 6        | 13.77         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 16       | 13.77         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 16       | 13.77         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 16       | 13.77         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 10       | 13.77         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 10       | 13.77         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 16       | 13.77         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 16       | 13.77         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 13       | 13.77         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 10       | 13.77         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 3        | 13.77         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 5        | 13.77         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 11       | 13.77         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 13       | 13.77         |
| (1,2730) | 1:A:11:TRP:HD1 | 1:A:16:GLY:HA3  | 9        | 13.77         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 1        | 13.77         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 1        | 13.77         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 1        | 13.77         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 4        | 13.77         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 1        | 13.77         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 1        | 13.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 5        | 13.77         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 5        | 13.77         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 11       | 13.77         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 11       | 13.77         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 9        | 13.77         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 14       | 13.77         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 13       | 13.77         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 19       | 13.77         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 19       | 13.77         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 16       | 13.77         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 16       | 13.77         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 9        | 13.77         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2  | 4        | 13.77         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3  | 4        | 13.77         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 19       | 13.77         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 17       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 9        | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 9        | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 13       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 13       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 18       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 18       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 19       | 13.77         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 19       | 13.77         |
| (1,1615) | 1:A:6:GLN:HB2  | 1:A:35:HIS:H    | 20       | 13.77         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 4        | 13.77         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 5        | 13.77         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 5        | 13.77         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 7        | 13.77         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 7        | 13.77         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 6        | 13.77         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 12       | 13.77         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 20       | 13.77         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 20       | 13.77         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 13       | 13.76         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 17       | 13.76         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 9        | 13.76         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 3        | 13.76         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 7        | 13.76         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 7        | 13.76         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 11       | 13.76         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 11       | 13.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE1  | 14       | 13.76         |
| (1,3563) | 1:A:17:GLY:H   | 1:A:23:TYR:HE2  | 14       | 13.76         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 13       | 13.76         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 11       | 13.76         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 2        | 13.76         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 2        | 13.76         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 6        | 13.76         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 6        | 13.76         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 8        | 13.76         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 8        | 13.76         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 3        | 13.76         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 6        | 13.76         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 20       | 13.76         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 7        | 13.76         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 9        | 13.76         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 11       | 13.76         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 11       | 13.76         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 11       | 13.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 11       | 13.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 11       | 13.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 11       | 13.76         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 11       | 13.76         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 3        | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 8        | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 8        | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 13       | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 13       | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 15       | 13.76         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 15       | 13.76         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG2  | 20       | 13.76         |
| (1,1849) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HG3  | 20       | 13.76         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 7        | 13.76         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 18       | 13.76         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 20       | 13.76         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 20       | 13.76         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 13       | 13.76         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 13       | 13.76         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 17       | 13.76         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 17       | 13.76         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 2        | 13.76         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 2        | 13.76         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 9        | 13.76         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2 | 9        | 13.76         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3 | 9        | 13.76         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 3        | 13.76         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2 | 6        | 13.76         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3 | 6        | 13.76         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3 | 8        | 13.76         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 7        | 13.76         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 10       | 13.76         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 19       | 13.76         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 12       | 13.76         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H   | 16       | 13.76         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1 | 7        | 13.76         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2 | 7        | 13.76         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H   | 19       | 13.75         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 6        | 13.75         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 17       | 13.75         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1 | 14       | 13.75         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA  | 15       | 13.75         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 1        | 13.75         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 1        | 13.75         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 1        | 13.75         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H   | 1        | 13.75         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3 | 15       | 13.75         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA  | 14       | 13.75         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2 | 17       | 13.75         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3 | 17       | 13.75         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H   | 20       | 13.75         |
| (1,2731) | 1:A:11:TRP:HD1 | 1:A:17:GLY:H   | 14       | 13.75         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 2        | 13.75         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE1 | 17       | 13.75         |
| (1,2570) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HE2 | 17       | 13.75         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H   | 20       | 13.75         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 4        | 13.75         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 4        | 13.75         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2 | 6        | 13.75         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2 | 6        | 13.75         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2 | 10       | 13.75         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3 | 10       | 13.75         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2 | 9        | 13.75         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3 | 9        | 13.75         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2 | 7        | 13.75         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2 | 8        | 13.75         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1575) | 1:A:6:GLN:HA    | 1:A:30:PRO:HB3  | 8        | 13.75         |
| (1,1502) | 1:A:5:GLY:HA3   | 1:A:35:HIS:HE1  | 5        | 13.75         |
| (1,1500) | 1:A:5:GLY:HA3   | 1:A:35:HIS:H    | 10       | 13.75         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD2  | 4        | 13.75         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD3  | 4        | 13.75         |
| (1,1356) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HA   | 5        | 13.75         |
| (1,1304) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HA   | 3        | 13.75         |
| (1,1171) | 1:A:4:ASN:HB2   | 1:A:33:CYS:H    | 4        | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB2  | 2        | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB3  | 2        | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB2  | 5        | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB3  | 5        | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB2  | 13       | 13.75         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB3  | 13       | 13.75         |
| (1,1010) | 1:A:3:PRO:HD3   | 1:A:17:GLY:H    | 14       | 13.75         |
| (1,860)  | 1:A:3:PRO:HB3   | 1:A:23:TYR:H    | 7        | 13.74         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 14       | 13.74         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 9        | 13.74         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD1  | 6        | 13.74         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD2  | 6        | 13.74         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1  | 10       | 13.74         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2  | 10       | 13.74         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3  | 10       | 13.74         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE1  | 8        | 13.74         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE2  | 8        | 13.74         |
| (1,3481) | 1:A:16:GLY:H    | 1:A:31:LYS:HA   | 15       | 13.74         |
| (1,3465) | 1:A:16:GLY:H    | 1:A:23:TYR:HD1  | 1        | 13.74         |
| (1,3465) | 1:A:16:GLY:H    | 1:A:23:TYR:HD2  | 1        | 13.74         |
| (1,3445) | 1:A:15:ARG:HE   | 1:A:32:TYR:H    | 6        | 13.74         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ1  | 14       | 13.74         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ2  | 14       | 13.74         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ3  | 14       | 13.74         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2  | 13       | 13.74         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3  | 13       | 13.74         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE1  | 5        | 13.74         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE2  | 5        | 13.74         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE21 | 12       | 13.74         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE22 | 12       | 13.74         |
| (1,2898) | 1:A:11:TRP:HE1  | 1:A:35:HIS:HE1  | 9        | 13.74         |
| (1,2894) | 1:A:11:TRP:HE1  | 1:A:34:ALA:HB1  | 12       | 13.74         |
| (1,2894) | 1:A:11:TRP:HE1  | 1:A:34:ALA:HB2  | 12       | 13.74         |
| (1,2894) | 1:A:11:TRP:HE1  | 1:A:34:ALA:HB3  | 12       | 13.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 1        | 13.74         |
| (1,2847) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HA   | 17       | 13.74         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 14       | 13.74         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 8        | 13.74         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 10       | 13.74         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 16       | 13.74         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 18       | 13.74         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 19       | 13.74         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 15       | 13.74         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 2        | 13.74         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 2        | 13.74         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2  | 1        | 13.74         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3  | 1        | 13.74         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 16       | 13.74         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 16       | 13.74         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 6        | 13.74         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 12       | 13.74         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 20       | 13.74         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 11       | 13.74         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 17       | 13.74         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 7        | 13.74         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 7        | 13.74         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 18       | 13.74         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 7        | 13.74         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 18       | 13.74         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 18       | 13.74         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 14       | 13.74         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 1        | 13.74         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 1        | 13.74         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 10       | 13.73         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1  | 13       | 13.73         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 19       | 13.73         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 13       | 13.73         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 4        | 13.73         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 4        | 13.73         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 20       | 13.73         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ1  | 18       | 13.73         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ2  | 18       | 13.73         |
| (1,3132) | 1:A:13:GLY:H   | 1:A:31:LYS:HZ3  | 18       | 13.73         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 14       | 13.73         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 11       | 13.73         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 8        | 13.73         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 8        | 13.73         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 10       | 13.73         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 7        | 13.73         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 7        | 13.73         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 16       | 13.73         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 16       | 13.73         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 15       | 13.73         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 15       | 13.73         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG2 | 11       | 13.73         |
| (1,1962) | 1:A:7:CYS:H    | 1:A:30:PRO:HG3 | 11       | 13.73         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 12       | 13.73         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 12       | 13.73         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2 | 8        | 13.73         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3 | 8        | 13.73         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2 | 12       | 13.73         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2 | 15       | 13.73         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3 | 15       | 13.73         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 4        | 13.73         |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 14       | 13.73         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE  | 10       | 13.73         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 9        | 13.73         |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H   | 1        | 13.73         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 18       | 13.73         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 19       | 13.73         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 9        | 13.73         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1 | 18       | 13.73         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2 | 18       | 13.73         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 1        | 13.72         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 10       | 13.72         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 19       | 13.72         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA  | 2        | 13.72         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA  | 10       | 13.72         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 16       | 13.72         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 9        | 13.72         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 9        | 13.72         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 4        | 13.72         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 4        | 13.72         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 18       | 13.72         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 18       | 13.72         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2 | 14       | 13.72         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3 | 14       | 13.72         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 11       | 13.72         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 11       | 13.72         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 11       | 13.72         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H   | 15       | 13.72         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2 | 13       | 13.72         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3 | 13       | 13.72         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 15       | 13.72         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H   | 15       | 13.72         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1 | 13       | 13.72         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2 | 13       | 13.72         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2 | 20       | 13.72         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3 | 20       | 13.72         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 20       | 13.72         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 7        | 13.72         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 7        | 13.72         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 15       | 13.72         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2 | 14       | 13.72         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3 | 14       | 13.72         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 11       | 13.72         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 12       | 13.72         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 1        | 13.72         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H   | 17       | 13.72         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2 | 1        | 13.72         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3 | 1        | 13.72         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3 | 10       | 13.72         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 13       | 13.72         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 13       | 13.72         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 13       | 13.72         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2 | 20       | 13.72         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2 | 9        | 13.72         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3 | 9        | 13.72         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2 | 3        | 13.72         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3 | 3        | 13.72         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2 | 9        | 13.72         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3 | 9        | 13.72         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2 | 11       | 13.72         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3 | 11       | 13.72         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2 | 7        | 13.72         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 7        | 13.72         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 14       | 13.72         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 4        | 13.72         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 5        | 13.71         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 4        | 13.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 4        | 13.71         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 3        | 13.71         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 4        | 13.71         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 17       | 13.71         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 4        | 13.71         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 4        | 13.71         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 4        | 13.71         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 3        | 13.71         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 3        | 13.71         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 16       | 13.71         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 15       | 13.71         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 11       | 13.71         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 9        | 13.71         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 9        | 13.71         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 13       | 13.71         |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 7        | 13.71         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 3        | 13.71         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 3        | 13.71         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 15       | 13.71         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 15       | 13.71         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB2  | 17       | 13.71         |
| (1,2485) | 1:A:10:GLY:H   | 1:A:33:CYS:HB3  | 17       | 13.71         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 9        | 13.71         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 9        | 13.71         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 16       | 13.71         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 16       | 13.71         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 14       | 13.71         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 14       | 13.71         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA2  | 15       | 13.71         |
| (1,1729) | 1:A:6:GLN:HG2  | 1:A:29:GLY:HA3  | 15       | 13.71         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 18       | 13.71         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 14       | 13.71         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 1        | 13.71         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 1        | 13.71         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2  | 15       | 13.71         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 15       | 13.71         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 4        | 13.71         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 14       | 13.71         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 4        | 13.71         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 4        | 13.71         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 6        | 13.71         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 6        | 13.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 8        | 13.71         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 18       | 13.71         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 1        | 13.71         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 1        | 13.71         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 14       | 13.71         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 14       | 13.71         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 5        | 13.71         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 5        | 13.71         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 17       | 13.71         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 3        | 13.71         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 14       | 13.7          |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 10       | 13.7          |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 10       | 13.7          |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 7        | 13.7          |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 18       | 13.7          |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 5        | 13.7          |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 7        | 13.7          |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 2        | 13.7          |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 17       | 13.7          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 2        | 13.7          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 2        | 13.7          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 4        | 13.7          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 4        | 13.7          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 5        | 13.7          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 5        | 13.7          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 14       | 13.7          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 14       | 13.7          |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 2        | 13.7          |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 2        | 13.7          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 16       | 13.7          |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 16       | 13.7          |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 9        | 13.7          |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 20       | 13.7          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 14       | 13.7          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 14       | 13.7          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 14       | 13.7          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 1        | 13.7          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 1        | 13.7          |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 1        | 13.7          |
| (1,2065) | 1:A:8:GLY:H    | 1:A:31:LYS:HA   | 17       | 13.7          |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 1        | 13.7          |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 13       | 13.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 15       | 13.7          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 10       | 13.7          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 10       | 13.7          |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 11       | 13.7          |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 11       | 13.7          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 6        | 13.7          |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 2        | 13.7          |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 6        | 13.7          |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 2        | 13.7          |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 2        | 13.7          |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3  | 19       | 13.7          |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 19       | 13.7          |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 7        | 13.7          |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 14       | 13.69         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 11       | 13.69         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 4        | 13.69         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 4        | 13.69         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 4        | 13.69         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 1        | 13.69         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 1        | 13.69         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 6        | 13.69         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 18       | 13.69         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 19       | 13.69         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 9        | 13.69         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 13       | 13.69         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 19       | 13.69         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 19       | 13.69         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 7        | 13.69         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 7        | 13.69         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 3        | 13.69         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 3        | 13.69         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 5        | 13.69         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 5        | 13.69         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 17       | 13.69         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 17       | 13.69         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 6        | 13.69         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 6        | 13.69         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 6        | 13.69         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 6        | 13.69         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 4        | 13.69         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 4        | 13.69         |
| (1,2493) | 1:A:10:GLY:HA2 | 1:A:19:CYS:H    | 17       | 13.69         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE1 | 13       | 13.69         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE2 | 13       | 13.69         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE1 | 20       | 13.69         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE2 | 20       | 13.69         |
| (1,2449) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HB3 | 18       | 13.69         |
| (1,2449) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HB3 | 18       | 13.69         |
| (1,2162) | 1:A:9:PRO:HA    | 1:A:22:GLN:HG3 | 10       | 13.69         |
| (1,2102) | 1:A:8:GLY:HA2   | 1:A:35:HIS:H   | 15       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG2 | 16       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG3 | 16       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG2 | 18       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG3 | 18       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG2 | 19       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG3 | 19       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG2 | 20       | 13.69         |
| (1,1962) | 1:A:7:CYS:H     | 1:A:30:PRO:HG3 | 20       | 13.69         |
| (1,1827) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HG2 | 11       | 13.69         |
| (1,1736) | 1:A:6:GLN:HG2   | 1:A:35:HIS:HE1 | 9        | 13.69         |
| (1,1729) | 1:A:6:GLN:HG2   | 1:A:29:GLY:HA2 | 11       | 13.69         |
| (1,1729) | 1:A:6:GLN:HG2   | 1:A:29:GLY:HA3 | 11       | 13.69         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB1 | 6        | 13.69         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB2 | 6        | 13.69         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB3 | 6        | 13.69         |
| (1,1609) | 1:A:6:GLN:HB2   | 1:A:32:TYR:H   | 5        | 13.69         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD2 | 12       | 13.69         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD3 | 12       | 13.69         |
| (1,1356) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HA  | 1        | 13.69         |
| (1,1356) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HA  | 15       | 13.69         |
| (1,1356) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HA  | 20       | 13.69         |
| (1,1304) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HA  | 9        | 13.69         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA2 | 10       | 13.69         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA3 | 10       | 13.69         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD2 | 11       | 13.69         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD3 | 11       | 13.69         |
| (1,1203) | 1:A:4:ASN:HB3   | 1:A:17:GLY:HA2 | 15       | 13.69         |
| (1,911)  | 1:A:3:PRO:HG2   | 1:A:17:GLY:H   | 16       | 13.68         |
| (1,911)  | 1:A:3:PRO:HG3   | 1:A:17:GLY:H   | 16       | 13.68         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 2        | 13.68         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 2        | 13.68         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 2        | 13.68         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 7        | 13.68         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 7        | 13.68         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 7        | 13.68         |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3 | 18       | 13.68         |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2 | 5        | 13.68         |
| (1,3558) | 1:A:17:GLY:H    | 1:A:22:GLN:HG2 | 16       | 13.68         |
| (1,3533) | 1:A:16:GLY:HA3  | 1:A:23:TYR:HD1 | 16       | 13.68         |
| (1,3533) | 1:A:16:GLY:HA3  | 1:A:23:TYR:HD2 | 16       | 13.68         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB2 | 7        | 13.68         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB3 | 7        | 13.68         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H   | 2        | 13.68         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H   | 2        | 13.68         |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2 | 12       | 13.68         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG2 | 3        | 13.68         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG3 | 3        | 13.68         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2 | 4        | 13.68         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3 | 4        | 13.68         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE1 | 2        | 13.68         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE2 | 2        | 13.68         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE1 | 7        | 13.68         |
| (1,3110) | 1:A:13:GLY:H    | 1:A:23:TYR:HE2 | 7        | 13.68         |
| (1,3105) | 1:A:13:GLY:H    | 1:A:22:GLN:HG3 | 2        | 13.68         |
| (1,3105) | 1:A:13:GLY:H    | 1:A:22:GLN:HG3 | 9        | 13.68         |
| (1,3041) | 1:A:12:GLY:HA2  | 1:A:22:GLN:HG3 | 19       | 13.68         |
| (1,2756) | 1:A:11:TRP:HD1  | 1:A:28:SER:HB2 | 3        | 13.68         |
| (1,2756) | 1:A:11:TRP:HD1  | 1:A:28:SER:HB3 | 3        | 13.68         |
| (1,2756) | 1:A:11:TRP:HD1  | 1:A:28:SER:HB2 | 5        | 13.68         |
| (1,2756) | 1:A:11:TRP:HD1  | 1:A:28:SER:HB3 | 5        | 13.68         |
| (1,2682) | 1:A:11:TRP:HB3  | 1:A:17:GLY:HA2 | 1        | 13.68         |
| (1,2643) | 1:A:11:TRP:HB2  | 1:A:17:GLY:HA2 | 6        | 13.68         |
| (1,2584) | 1:A:11:TRP:H    | 1:A:17:GLY:H   | 6        | 13.68         |
| (1,2509) | 1:A:10:GLY:HA2  | 1:A:27:GLY:H   | 10       | 13.68         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE1 | 1        | 13.68         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE2 | 1        | 13.68         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE1 | 8        | 13.68         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE2 | 8        | 13.68         |
| (1,2421) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HD2 | 5        | 13.68         |
| (1,2147) | 1:A:9:PRO:HA    | 1:A:15:ARG:HB3 | 1        | 13.68         |
| (1,1881) | 1:A:6:GLN:HE22  | 1:A:17:GLY:HA2 | 6        | 13.68         |
| (1,1881) | 1:A:6:GLN:HE22  | 1:A:17:GLY:HA3 | 6        | 13.68         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB1 | 3        | 13.68         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB2 | 3        | 13.68         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB3 | 3        | 13.68         |
| (1,1462) | 1:A:5:GLY:HA2   | 1:A:30:PRO:HG2 | 20       | 13.68         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1462) | 1:A:5:GLY:HA2   | 1:A:30:PRO:HG3  | 20       | 13.68         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD2  | 11       | 13.68         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD3  | 11       | 13.68         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD2  | 12       | 13.68         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD3  | 12       | 13.68         |
| (1,1202) | 1:A:4:ASN:HB3   | 1:A:17:GLY:H    | 5        | 13.68         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB1  | 12       | 13.68         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB2  | 12       | 13.68         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB3  | 12       | 13.68         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE21 | 17       | 13.68         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE22 | 17       | 13.68         |
| (1,1105) | 1:A:4:ASN:H     | 1:A:31:LYS:HD2  | 18       | 13.68         |
| (1,1105) | 1:A:4:ASN:H     | 1:A:31:LYS:HD3  | 18       | 13.68         |
| (1,968)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:HG2  | 3        | 13.67         |
| (1,774)  | 1:A:3:PRO:HB2   | 1:A:9:PRO:HA    | 20       | 13.67         |
| (1,635)  | 1:A:2:GLY:H     | 1:A:22:GLN:HE21 | 12       | 13.67         |
| (1,635)  | 1:A:2:GLY:H     | 1:A:22:GLN:HE22 | 12       | 13.67         |
| (1,582)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB2  | 13       | 13.67         |
| (1,582)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB2  | 13       | 13.67         |
| (1,522)  | 1:A:1:SER:HA    | 1:A:22:GLN:HB3  | 15       | 13.67         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 4        | 13.67         |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 15       | 13.67         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD1  | 17       | 13.67         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD2  | 17       | 13.67         |
| (1,3560) | 1:A:17:GLY:H    | 1:A:22:GLN:HE21 | 1        | 13.67         |
| (1,3560) | 1:A:17:GLY:H    | 1:A:22:GLN:HE22 | 1        | 13.67         |
| (1,3297) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HB2  | 10       | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2  | 1        | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3  | 1        | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2  | 2        | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3  | 2        | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2  | 15       | 13.67         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3  | 15       | 13.67         |
| (1,3047) | 1:A:12:GLY:HA2  | 1:A:33:CYS:H    | 6        | 13.67         |
| (1,3047) | 1:A:12:GLY:HA2  | 1:A:33:CYS:H    | 10       | 13.67         |
| (1,2887) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HA   | 2        | 13.67         |
| (1,2682) | 1:A:11:TRP:HB3  | 1:A:17:GLY:HA2  | 17       | 13.67         |
| (1,2498) | 1:A:10:GLY:HA2  | 1:A:22:GLN:HB2  | 1        | 13.67         |
| (1,2498) | 1:A:10:GLY:HA2  | 1:A:22:GLN:HB3  | 1        | 13.67         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD1  | 9        | 13.67         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD2  | 9        | 13.67         |
| (1,2151) | 1:A:9:PRO:HA    | 1:A:18:LEU:H    | 14       | 13.67         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 14       | 13.67         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 4        | 13.67         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 6        | 13.67         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 17       | 13.67         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 8        | 13.67         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 9        | 13.67         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 10       | 13.67         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2  | 6        | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 1        | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 1        | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 5        | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 5        | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 13       | 13.67         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 13       | 13.67         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 17       | 13.67         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 17       | 13.67         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 12       | 13.67         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 3        | 13.66         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 3        | 13.66         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 3        | 13.66         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 3        | 13.66         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 9        | 13.66         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 9        | 13.66         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 6        | 13.66         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 6        | 13.66         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 17       | 13.66         |
| (1,3597) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG3  | 14       | 13.66         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 4        | 13.66         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 4        | 13.66         |
| (1,3559) | 1:A:17:GLY:H   | 1:A:22:GLN:HB2  | 7        | 13.66         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 20       | 13.66         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE21 | 6        | 13.66         |
| (1,3530) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HE22 | 6        | 13.66         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 11       | 13.66         |
| (1,3429) | 1:A:15:ARG:HE  | 1:A:22:GLN:HA   | 20       | 13.66         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 8        | 13.66         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 8        | 13.66         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 12       | 13.66         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 3        | 13.66         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 4        | 13.66         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 1        | 13.66         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 14       | 13.66         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H   | 2        | 13.66         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H   | 6        | 13.66         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2 | 11       | 13.66         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 9        | 13.66         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 9        | 13.66         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 9        | 13.66         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 5        | 13.66         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 18       | 13.66         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 19       | 13.66         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 2        | 13.66         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 3        | 13.66         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 18       | 13.66         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 8        | 13.66         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 8        | 13.66         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3 | 19       | 13.66         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3 | 11       | 13.66         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 17       | 13.66         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1 | 5        | 13.66         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2 | 8        | 13.66         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 17       | 13.66         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 12       | 13.66         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 10       | 13.66         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 10       | 13.66         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 18       | 13.66         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 18       | 13.66         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA  | 2        | 13.66         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 14       | 13.66         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 14       | 13.66         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 13       | 13.66         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 13       | 13.66         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2 | 15       | 13.66         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3 | 15       | 13.66         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 6        | 13.66         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 4        | 13.65         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 8        | 13.65         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 14       | 13.65         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 18       | 13.65         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2 | 12       | 13.65         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 19       | 13.65         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 19       | 13.65         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 14       | 13.65         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 14       | 13.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 14       | 13.65         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 14       | 13.65         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 1        | 13.65         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 18       | 13.65         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 18       | 13.65         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 7        | 13.65         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 7        | 13.65         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 17       | 13.65         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 17       | 13.65         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 4        | 13.65         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 4        | 13.65         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 18       | 13.65         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 7        | 13.65         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 3        | 13.65         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 3        | 13.65         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 17       | 13.65         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 4        | 13.65         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 3        | 13.65         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 4        | 13.65         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 5        | 13.65         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 6        | 13.65         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 3        | 13.65         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 7        | 13.65         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 17       | 13.65         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 4        | 13.65         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 5        | 13.65         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 6        | 13.65         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 16       | 13.65         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 5        | 13.65         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 5        | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 16       | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 16       | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 18       | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 18       | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 19       | 13.65         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 19       | 13.65         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 15       | 13.65         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 5        | 13.65         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 17       | 13.65         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 17       | 13.65         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 7        | 13.65         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 3        | 13.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 13       | 13.65         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 18       | 13.65         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2  | 19       | 13.65         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3  | 19       | 13.65         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 16       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 18       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 18       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 18       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 20       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 20       | 13.65         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 20       | 13.65         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 15       | 13.65         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 15       | 13.65         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 17       | 13.65         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 17       | 13.65         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 20       | 13.65         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 15       | 13.65         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 15       | 13.65         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 15       | 13.65         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 4        | 13.65         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 4        | 13.65         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 3        | 13.64         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 15       | 13.64         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 19       | 13.64         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 14       | 13.64         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 14       | 13.64         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 6        | 13.64         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 4        | 13.64         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 4        | 13.64         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 1        | 13.64         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 1        | 13.64         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 19       | 13.64         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 19       | 13.64         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 12       | 13.64         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 15       | 13.64         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 15       | 13.64         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 6        | 13.64         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 6        | 13.64         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 2        | 13.64         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 5        | 13.64         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 9        | 13.64         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 9        | 13.64         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 9        | 13.64         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1 | 18       | 13.64         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2 | 18       | 13.64         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 18       | 13.64         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 5        | 13.64         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 5        | 13.64         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 14       | 13.64         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 14       | 13.64         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA  | 13       | 13.64         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2 | 7        | 13.64         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3 | 7        | 13.64         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2 | 20       | 13.64         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H   | 5        | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 18       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 18       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 18       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 19       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 19       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 19       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 20       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 20       | 13.64         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 20       | 13.64         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 11       | 13.64         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 13       | 13.64         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 18       | 13.64         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 19       | 13.64         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 7        | 13.64         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 9        | 13.64         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 11       | 13.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 12       | 13.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 12       | 13.64         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 12       | 13.64         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 1        | 13.64         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 1        | 13.64         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 16       | 13.64         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 5        | 13.64         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 5        | 13.64         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 5        | 13.64         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 4        | 13.64         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 12       | 13.64         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 1        | 13.64         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 1        | 13.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 12       | 13.64         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 19       | 13.64         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 19       | 13.64         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 19       | 13.64         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 2        | 13.64         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 2        | 13.64         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 10       | 13.64         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 10       | 13.64         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 17       | 13.64         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 16       | 13.64         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 8        | 13.64         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 4        | 13.63         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 19       | 13.63         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 19       | 13.63         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 15       | 13.63         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 7        | 13.63         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 18       | 13.63         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2  | 16       | 13.63         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 16       | 13.63         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 1        | 13.63         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 13       | 13.63         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 15       | 13.63         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 16       | 13.63         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 16       | 13.63         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 11       | 13.63         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 11       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 19       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 19       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 19       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 20       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 20       | 13.63         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 20       | 13.63         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 3        | 13.63         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 3        | 13.63         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 11       | 13.63         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 8        | 13.63         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 8        | 13.63         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 8        | 13.63         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 3        | 13.63         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 3        | 13.63         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 10       | 13.63         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 6        | 13.63         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 10       | 13.63         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2 | 19       | 13.63         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3 | 19       | 13.63         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 5        | 13.63         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 12       | 13.63         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 12       | 13.63         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 19       | 13.63         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 19       | 13.63         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA  | 11       | 13.63         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA  | 13       | 13.63         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 20       | 13.63         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2 | 17       | 13.63         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 12       | 13.63         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 12       | 13.63         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 15       | 13.63         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 15       | 13.63         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 8        | 13.63         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 16       | 13.63         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 19       | 13.63         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 20       | 13.63         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1 | 20       | 13.63         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2 | 20       | 13.63         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 6        | 13.63         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 10       | 13.63         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 20       | 13.63         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2 | 12       | 13.63         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 18       | 13.63         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 18       | 13.63         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 7        | 13.63         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H   | 2        | 13.63         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2 | 20       | 13.63         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H   | 9        | 13.63         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H   | 15       | 13.63         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG2 | 16       | 13.63         |
| (1,1462) | 1:A:5:GLY:HA2  | 1:A:30:PRO:HG3 | 16       | 13.63         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 10       | 13.63         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H   | 10       | 13.63         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 12       | 13.63         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2 | 4        | 13.63         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3 | 4        | 13.63         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA  | 16       | 13.63         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2 | 5        | 13.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 5        | 13.63         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 13       | 13.63         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 13       | 13.63         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 7        | 13.63         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 11       | 13.62         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 11       | 13.62         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 6        | 13.62         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 3        | 13.62         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 7        | 13.62         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 18       | 13.62         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 5        | 13.62         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 5        | 13.62         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 1        | 13.62         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 1        | 13.62         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 1        | 13.62         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 1        | 13.62         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 17       | 13.62         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 17       | 13.62         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 9        | 13.62         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 9        | 13.62         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 19       | 13.62         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 19       | 13.62         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 18       | 13.62         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 8        | 13.62         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 5        | 13.62         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 5        | 13.62         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 10       | 13.62         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 10       | 13.62         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 8        | 13.62         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 17       | 13.62         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 15       | 13.62         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 13       | 13.62         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 18       | 13.62         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 18       | 13.62         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 1        | 13.62         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 13       | 13.62         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 17       | 13.62         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 17       | 13.62         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 17       | 13.62         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 1        | 13.62         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 20       | 13.62         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 2        | 13.62         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 2        | 13.62         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 2        | 13.62         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 2        | 13.62         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 18       | 13.62         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 18       | 13.62         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 17       | 13.62         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 17       | 13.62         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 9        | 13.62         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 20       | 13.62         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 8        | 13.62         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 9        | 13.62         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 18       | 13.62         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 16       | 13.62         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 16       | 13.62         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 19       | 13.62         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 19       | 13.62         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 12       | 13.62         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 17       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 16       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 16       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 18       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 18       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 20       | 13.62         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 20       | 13.62         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 5        | 13.62         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 8        | 13.62         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 8        | 13.62         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 4        | 13.62         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 4        | 13.62         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 1        | 13.62         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 1        | 13.62         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 18       | 13.62         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 8        | 13.62         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 9        | 13.61         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 9        | 13.61         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 9        | 13.61         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 9        | 13.61         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 18       | 13.61         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 18       | 13.61         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 19       | 13.61         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 19       | 13.61         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H    | 5        | 13.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 1        | 13.61         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 13       | 13.61         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 4        | 13.61         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 2        | 13.61         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 2        | 13.61         |
| (1,4010) | 1:A:20:CYS:HB3 | 1:A:35:HIS:HE1  | 14       | 13.61         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 3        | 13.61         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 11       | 13.61         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 11       | 13.61         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 13       | 13.61         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 13       | 13.61         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 15       | 13.61         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 15       | 13.61         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 18       | 13.61         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 1        | 13.61         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 1        | 13.61         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 12       | 13.61         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 12       | 13.61         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 12       | 13.61         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 4        | 13.61         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 4        | 13.61         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 12       | 13.61         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 12       | 13.61         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 17       | 13.61         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 17       | 13.61         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 8        | 13.61         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 4        | 13.61         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 4        | 13.61         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 3        | 13.61         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 3        | 13.61         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 16       | 13.61         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 19       | 13.61         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 14       | 13.61         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 14       | 13.61         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 6        | 13.61         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 16       | 13.61         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 5        | 13.61         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 7        | 13.61         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB2  | 19       | 13.61         |
| (1,1575) | 1:A:6:GLN:HA   | 1:A:30:PRO:HB3  | 19       | 13.61         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 7        | 13.61         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 7        | 13.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 6        | 13.61         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 12       | 13.61         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 12       | 13.61         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 19       | 13.61         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H    | 1        | 13.61         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 8        | 13.61         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 8        | 13.61         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 19       | 13.6          |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 19       | 13.6          |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 19       | 13.6          |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 19       | 13.6          |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 12       | 13.6          |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 12       | 13.6          |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 8        | 13.6          |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 16       | 13.6          |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 3        | 13.6          |
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1  | 8        | 13.6          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 2        | 13.6          |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 2        | 13.6          |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 16       | 13.6          |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 16       | 13.6          |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 8        | 13.6          |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 9        | 13.6          |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 12       | 13.6          |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 16       | 13.6          |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 14       | 13.6          |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 4        | 13.6          |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 14       | 13.6          |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 11       | 13.6          |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 11       | 13.6          |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 10       | 13.6          |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 10       | 13.6          |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 6        | 13.6          |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 6        | 13.6          |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 18       | 13.6          |
| (1,2897) | 1:A:11:TRP:HE1 | 1:A:35:HIS:HB2  | 1        | 13.6          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 8        | 13.6          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 8        | 13.6          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 9        | 13.6          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 9        | 13.6          |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 17       | 13.6          |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 12       | 13.6          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 8        | 13.6          |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 9        | 13.6          |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 12       | 13.6          |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 4        | 13.6          |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 4        | 13.6          |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 9        | 13.6          |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H   | 1        | 13.6          |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 11       | 13.6          |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 16       | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 8        | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 8        | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 9        | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 9        | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 11       | 13.6          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 11       | 13.6          |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA2 | 17       | 13.6          |
| (1,1813) | 1:A:6:GLN:HE21 | 1:A:17:GLY:HA3 | 17       | 13.6          |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2 | 6        | 13.6          |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H   | 3        | 13.6          |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 9        | 13.6          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1 | 16       | 13.6          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2 | 16       | 13.6          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3 | 16       | 13.6          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 1        | 13.6          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 2        | 13.6          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2 | 13       | 13.6          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD2 | 8        | 13.6          |
| (1,1381) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HD3 | 8        | 13.6          |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H   | 5        | 13.6          |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 1        | 13.6          |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2 | 6        | 13.6          |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3 | 6        | 13.6          |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 3        | 13.6          |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 3        | 13.6          |
| (1,1234) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HG3 | 11       | 13.6          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1 | 8        | 13.6          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2 | 8        | 13.6          |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3 | 8        | 13.6          |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 10       | 13.6          |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3 | 20       | 13.6          |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2 | 9        | 13.6          |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2 | 11       | 13.6          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 17       | 13.59         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 17       | 13.59         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 17       | 13.59         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 17       | 13.59         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 11       | 13.59         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 8        | 13.59         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 8        | 13.59         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 8        | 13.59         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 8        | 13.59         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 9        | 13.59         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 19       | 13.59         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 8        | 13.59         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 8        | 13.59         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 11       | 13.59         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 11       | 13.59         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 16       | 13.59         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 7        | 13.59         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 7        | 13.59         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 7        | 13.59         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 7        | 13.59         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 5        | 13.59         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 5        | 13.59         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 14       | 13.59         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 1        | 13.59         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 1        | 13.59         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 15       | 13.59         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 15       | 13.59         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 10       | 13.59         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 10       | 13.59         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 9        | 13.59         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 2        | 13.59         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 4        | 13.59         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 10       | 13.59         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 10       | 13.59         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 10       | 13.59         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 20       | 13.59         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 20       | 13.59         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 18       | 13.59         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 18       | 13.59         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 19       | 13.59         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 19       | 13.59         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 20       | 13.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 20       | 13.59         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 10       | 13.59         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 10       | 13.59         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3 | 8        | 13.59         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3 | 8        | 13.59         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3 | 11       | 13.59         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3 | 11       | 13.59         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 12       | 13.59         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 17       | 13.59         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 2        | 13.59         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 10       | 13.59         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 8        | 13.59         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 7        | 13.59         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 7        | 13.59         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 1        | 13.59         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 13       | 13.59         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 10       | 13.59         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 10       | 13.59         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 9        | 13.59         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H   | 11       | 13.58         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H   | 2        | 13.58         |
| (1,860)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:H   | 10       | 13.58         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 1        | 13.58         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 13       | 13.58         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE  | 18       | 13.58         |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA   | 12       | 13.58         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 6        | 13.58         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 6        | 13.58         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2 | 6        | 13.58         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3 | 6        | 13.58         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 2        | 13.58         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2 | 11       | 13.58         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1 | 16       | 13.58         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1 | 15       | 13.58         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2 | 15       | 13.58         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1 | 11       | 13.58         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2 | 11       | 13.58         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 3        | 13.58         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 4        | 13.58         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H   | 6        | 13.58         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 15       | 13.58         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1 | 1        | 13.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 1        | 13.58         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 16       | 13.58         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 16       | 13.58         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 17       | 13.58         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 17       | 13.58         |
| (1,3039) | 1:A:12:GLY:H   | 1:A:35:HIS:HB2  | 20       | 13.58         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 16       | 13.58         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 16       | 13.58         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 2        | 13.58         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 2        | 13.58         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 12       | 13.58         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 12       | 13.58         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 14       | 13.58         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 14       | 13.58         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 14       | 13.58         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 10       | 13.58         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 10       | 13.58         |
| (1,2785) | 1:A:11:TRP:HE3 | 1:A:17:GLY:H    | 14       | 13.58         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 7        | 13.58         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 3        | 13.58         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 15       | 13.58         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 5        | 13.58         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 9        | 13.58         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 5        | 13.58         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 5        | 13.58         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 16       | 13.58         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 16       | 13.58         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 14       | 13.58         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 14       | 13.58         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 12       | 13.58         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 6        | 13.58         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 6        | 13.58         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 3        | 13.58         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 3        | 13.58         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 13       | 13.58         |
| (1,2068) | 1:A:8:GLY:H    | 1:A:31:LYS:HB3  | 17       | 13.58         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 18       | 13.58         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 14       | 13.58         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 13       | 13.58         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 2        | 13.58         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 8        | 13.58         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 11       | 13.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 7        | 13.58         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 7        | 13.58         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 7        | 13.58         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 11       | 13.58         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 2        | 13.58         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 2        | 13.58         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 2        | 13.58         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 7        | 13.58         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 7        | 13.58         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 8        | 13.58         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 9        | 13.58         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 9        | 13.58         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 2        | 13.58         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 14       | 13.58         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 14       | 13.58         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 19       | 13.58         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 19       | 13.58         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 8        | 13.57         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 8        | 13.57         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 11       | 13.57         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 11       | 13.57         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 11       | 13.57         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 11       | 13.57         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 11       | 13.57         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 11       | 13.57         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 20       | 13.57         |
| (1,4132) | 1:A:22:GLN:H   | 1:A:35:HIS:HE1  | 2        | 13.57         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 2        | 13.57         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 10       | 13.57         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 11       | 13.57         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 18       | 13.57         |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 18       | 13.57         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2  | 2        | 13.57         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 2        | 13.57         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 15       | 13.57         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 15       | 13.57         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 5        | 13.57         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 11       | 13.57         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 17       | 13.57         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 14       | 13.57         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 13       | 13.57         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 4        | 13.57         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 4        | 13.57         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 7        | 13.57         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 7        | 13.57         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 10       | 13.57         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 10       | 13.57         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA  | 13       | 13.57         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2 | 7        | 13.57         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3 | 7        | 13.57         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H   | 8        | 13.57         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 14       | 13.57         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 15       | 13.57         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 18       | 13.57         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 19       | 13.57         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 11       | 13.57         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 11       | 13.57         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 7        | 13.57         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA  | 1        | 13.57         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 11       | 13.57         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 11       | 13.57         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1 | 13       | 13.57         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2 | 13       | 13.57         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 14       | 13.57         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 1        | 13.57         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H   | 13       | 13.57         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA  | 4        | 13.57         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 5        | 13.57         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 5        | 13.57         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 17       | 13.57         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 17       | 13.57         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H   | 6        | 13.57         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H   | 15       | 13.57         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 1        | 13.57         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3 | 10       | 13.57         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H   | 3        | 13.57         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3 | 17       | 13.57         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 13       | 13.57         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3 | 1        | 13.57         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 18       | 13.57         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 5        | 13.57         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 9        | 13.56         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 9        | 13.56         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H   | 7        | 13.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 7        | 13.56         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 6        | 13.56         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 12       | 13.56         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 12       | 13.56         |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 4        | 13.56         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 15       | 13.56         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 15       | 13.56         |
| (1,3531) | 1:A:16:GLY:HA3 | 1:A:23:TYR:H    | 5        | 13.56         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 12       | 13.56         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 12       | 13.56         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 8        | 13.56         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 12       | 13.56         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 10       | 13.56         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 2        | 13.56         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 2        | 13.56         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 13       | 13.56         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 13       | 13.56         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 12       | 13.56         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 18       | 13.56         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 19       | 13.56         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 20       | 13.56         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 16       | 13.56         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 14       | 13.56         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 14       | 13.56         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 18       | 13.56         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 16       | 13.56         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 6        | 13.56         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 6        | 13.56         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 9        | 13.56         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 9        | 13.56         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 14       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 12       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 12       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 12       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 16       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 16       | 13.56         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 16       | 13.56         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 1        | 13.56         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 1        | 13.56         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 14       | 13.56         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 19       | 13.56         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 20       | 13.56         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1881) | 1:A:6:GLN:HE22  | 1:A:17:GLY:HA3  | 20       | 13.56         |
| (1,1789) | 1:A:6:GLN:HG3   | 1:A:35:HIS:HE1  | 19       | 13.56         |
| (1,1751) | 1:A:6:GLN:HG3   | 1:A:16:GLY:HA2  | 4        | 13.56         |
| (1,1706) | 1:A:6:GLN:HG2   | 1:A:16:GLY:H    | 14       | 13.56         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB1  | 17       | 13.56         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB2  | 17       | 13.56         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB3  | 17       | 13.56         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB1  | 17       | 13.56         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB2  | 17       | 13.56         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB3  | 17       | 13.56         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD2  | 10       | 13.56         |
| (1,1448) | 1:A:5:GLY:H     | 1:A:30:PRO:HD3  | 10       | 13.56         |
| (1,1266) | 1:A:4:ASN:HD21  | 1:A:16:GLY:HA3  | 16       | 13.56         |
| (1,1263) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HA   | 19       | 13.56         |
| (1,1203) | 1:A:4:ASN:HB3   | 1:A:17:GLY:HA2  | 16       | 13.56         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB2  | 12       | 13.56         |
| (1,1111) | 1:A:4:ASN:H     | 1:A:33:CYS:HB3  | 12       | 13.56         |
| (1,1082) | 1:A:4:ASN:H     | 1:A:22:GLN:HG3  | 13       | 13.56         |
| (1,923)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:HE21 | 16       | 13.55         |
| (1,923)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:HE21 | 16       | 13.55         |
| (1,923)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:HE22 | 16       | 13.55         |
| (1,923)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:HE22 | 16       | 13.55         |
| (1,863)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:H    | 17       | 13.55         |
| (1,793)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:HA   | 3        | 13.55         |
| (1,793)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:HA   | 4        | 13.55         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 7        | 13.55         |
| (1,3626) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HE21 | 20       | 13.55         |
| (1,3626) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HE22 | 20       | 13.55         |
| (1,3558) | 1:A:17:GLY:H    | 1:A:22:GLN:HG2  | 14       | 13.55         |
| (1,3531) | 1:A:16:GLY:HA3  | 1:A:23:TYR:H    | 17       | 13.55         |
| (1,3445) | 1:A:15:ARG:HE   | 1:A:32:TYR:H    | 4        | 13.55         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE1  | 9        | 13.55         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE2  | 9        | 13.55         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE1  | 9        | 13.55         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE2  | 9        | 13.55         |
| (1,3130) | 1:A:13:GLY:H    | 1:A:31:LYS:HD2  | 8        | 13.55         |
| (1,3130) | 1:A:13:GLY:H    | 1:A:31:LYS:HD3  | 8        | 13.55         |
| (1,3105) | 1:A:13:GLY:H    | 1:A:22:GLN:HG3  | 8        | 13.55         |
| (1,3058) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HG2  | 18       | 13.55         |
| (1,3047) | 1:A:12:GLY:HA2  | 1:A:33:CYS:H    | 12       | 13.55         |
| (1,2940) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HA   | 12       | 13.55         |
| (1,2933) | 1:A:11:TRP:HZ3  | 1:A:32:TYR:HB2  | 7        | 13.55         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2933) | 1:A:11:TRP:HZ3  | 1:A:32:TYR:HB3  | 7        | 13.55         |
| (1,2933) | 1:A:11:TRP:HZ3  | 1:A:32:TYR:HB2  | 11       | 13.55         |
| (1,2933) | 1:A:11:TRP:HZ3  | 1:A:32:TYR:HB3  | 11       | 13.55         |
| (1,2755) | 1:A:11:TRP:HD1  | 1:A:28:SER:H    | 16       | 13.55         |
| (1,2671) | 1:A:11:TRP:HB2  | 1:A:33:CYS:H    | 4        | 13.55         |
| (1,2509) | 1:A:10:GLY:HA2  | 1:A:27:GLY:H    | 7        | 13.55         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE1  | 5        | 13.55         |
| (1,2472) | 1:A:10:GLY:H    | 1:A:23:TYR:HE2  | 5        | 13.55         |
| (1,2347) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HA   | 15       | 13.55         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD1  | 1        | 13.55         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD2  | 1        | 13.55         |
| (1,2273) | 1:A:9:PRO:HB3   | 1:A:27:GLY:H    | 15       | 13.55         |
| (1,2150) | 1:A:9:PRO:HA    | 1:A:16:GLY:H    | 4        | 13.55         |
| (1,2099) | 1:A:8:GLY:HA2   | 1:A:31:LYS:HD2  | 20       | 13.55         |
| (1,2099) | 1:A:8:GLY:HA2   | 1:A:31:LYS:HD3  | 20       | 13.55         |
| (1,2069) | 1:A:8:GLY:H     | 1:A:31:LYS:HD2  | 18       | 13.55         |
| (1,2069) | 1:A:8:GLY:H     | 1:A:31:LYS:HD3  | 18       | 13.55         |
| (1,1751) | 1:A:6:GLN:HG3   | 1:A:16:GLY:HA2  | 8        | 13.55         |
| (1,1357) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HG2  | 16       | 13.55         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2  | 10       | 13.55         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3  | 10       | 13.55         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD2  | 20       | 13.55         |
| (1,1231) | 1:A:4:ASN:HB3   | 1:A:30:PRO:HD3  | 20       | 13.55         |
| (1,1172) | 1:A:4:ASN:HB2   | 1:A:33:CYS:HA   | 7        | 13.55         |
| (1,1168) | 1:A:4:ASN:HB2   | 1:A:32:TYR:H    | 9        | 13.55         |
| (1,1168) | 1:A:4:ASN:HB2   | 1:A:32:TYR:H    | 14       | 13.55         |
| (1,1081) | 1:A:4:ASN:H     | 1:A:22:GLN:HB2  | 13       | 13.55         |
| (1,1080) | 1:A:4:ASN:H     | 1:A:22:GLN:HG2  | 6        | 13.55         |
| (1,1034) | 1:A:3:PRO:HD3   | 1:A:28:SER:H    | 12       | 13.55         |
| (1,1034) | 1:A:3:PRO:HD3   | 1:A:28:SER:H    | 13       | 13.55         |
| (1,967)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:H    | 12       | 13.54         |
| (1,911)  | 1:A:3:PRO:HG2   | 1:A:17:GLY:H    | 12       | 13.54         |
| (1,911)  | 1:A:3:PRO:HG3   | 1:A:17:GLY:H    | 12       | 13.54         |
| (1,855)  | 1:A:3:PRO:HB3   | 1:A:20:CYS:H    | 2        | 13.54         |
| (1,734)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HE21 | 16       | 13.54         |
| (1,734)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HE22 | 16       | 13.54         |
| (1,594)  | 1:A:1:SER:HB2   | 1:A:35:HIS:HE1  | 17       | 13.54         |
| (1,594)  | 1:A:1:SER:HB3   | 1:A:35:HIS:HE1  | 17       | 13.54         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 12       | 13.54         |
| (1,3528) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HG2  | 17       | 13.54         |
| (1,3483) | 1:A:16:GLY:H    | 1:A:31:LYS:HE2  | 12       | 13.54         |
| (1,3483) | 1:A:16:GLY:H    | 1:A:31:LYS:HE3  | 12       | 13.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE21 | 2        | 13.54         |
| (1,3463) | 1:A:16:GLY:H   | 1:A:22:GLN:HE22 | 2        | 13.54         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 10       | 13.54         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 3        | 13.54         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 3        | 13.54         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 12       | 13.54         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 12       | 13.54         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 17       | 13.54         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 17       | 13.54         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 17       | 13.54         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 8        | 13.54         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 8        | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 8        | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 9        | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 16       | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 18       | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 19       | 13.54         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA   | 20       | 13.54         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 8        | 13.54         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 8        | 13.54         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 16       | 13.54         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 10       | 13.54         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 10       | 13.54         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 2        | 13.54         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 9        | 13.54         |
| (1,2150) | 1:A:9:PRO:HA   | 1:A:16:GLY:H    | 3        | 13.54         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 18       | 13.54         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 18       | 13.54         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 7        | 13.54         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 16       | 13.54         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 5        | 13.54         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 7        | 13.54         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 16       | 13.54         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 10       | 13.54         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 15       | 13.54         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 18       | 13.54         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 8        | 13.54         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 8        | 13.54         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 16       | 13.54         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 16       | 13.54         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 8        | 13.54         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 2        | 13.54         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3 | 2        | 13.54         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3 | 5        | 13.54         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2 | 8        | 13.54         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 1        | 13.54         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1 | 2        | 13.54         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2 | 2        | 13.54         |
| (1,968)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HG2 | 10       | 13.53         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 1        | 13.53         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 1        | 13.53         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 8        | 13.53         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 8        | 13.53         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1 | 11       | 13.53         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2 | 11       | 13.53         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2 | 1        | 13.53         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3 | 1        | 13.53         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2 | 1        | 13.53         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3 | 1        | 13.53         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2 | 18       | 13.53         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2 | 18       | 13.53         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1 | 8        | 13.53         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H   | 1        | 13.53         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 12       | 13.53         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 12       | 13.53         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 13       | 13.53         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 13       | 13.53         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 11       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1 | 12       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2 | 12       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3 | 12       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1 | 19       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2 | 19       | 13.53         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3 | 19       | 13.53         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2 | 10       | 13.53         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3 | 10       | 13.53         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 9        | 13.53         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 9        | 13.53         |
| (1,2940) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HA  | 7        | 13.53         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2 | 9        | 13.53         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3 | 9        | 13.53         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 17       | 13.53         |
| (1,2547) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HG3 | 5        | 13.53         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H   | 1        | 13.53         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3 | 7        | 13.53         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3 | 14       | 13.53         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1 | 14       | 13.53         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2 | 14       | 13.53         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE1 | 17       | 13.53         |
| (1,2283) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HE2 | 17       | 13.53         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2 | 17       | 13.53         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3 | 17       | 13.53         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 20       | 13.53         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2 | 3        | 13.53         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 15       | 13.53         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 7        | 13.53         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 7        | 13.53         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 1        | 13.53         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA  | 15       | 13.53         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 6        | 13.53         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 6        | 13.53         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 18       | 13.53         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2 | 19       | 13.53         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2 | 16       | 13.53         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3 | 16       | 13.53         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H   | 11       | 13.53         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H   | 9        | 13.52         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 15       | 13.52         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 15       | 13.52         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 11       | 13.52         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2 | 4        | 13.52         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1 | 6        | 13.52         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2 | 6        | 13.52         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3 | 6        | 13.52         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 17       | 13.52         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 17       | 13.52         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 17       | 13.52         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 17       | 13.52         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 17       | 13.52         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 17       | 13.52         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 11       | 13.52         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 11       | 13.52         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2 | 11       | 13.52         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3 | 11       | 13.52         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2 | 2        | 13.52         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3 | 2        | 13.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD1  | 20       | 13.52         |
| (1,3533) | 1:A:16:GLY:HA3 | 1:A:23:TYR:HD2  | 20       | 13.52         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 4        | 13.52         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 4        | 13.52         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 17       | 13.52         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 17       | 13.52         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 6        | 13.52         |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 1        | 13.52         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 8        | 13.52         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 2        | 13.52         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 15       | 13.52         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 15       | 13.52         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 11       | 13.52         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 16       | 13.52         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 6        | 13.52         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 6        | 13.52         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 14       | 13.52         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 14       | 13.52         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 1        | 13.52         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 1        | 13.52         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 1        | 13.52         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 1        | 13.52         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 11       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 18       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 18       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 18       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 19       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 19       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 19       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 20       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 20       | 13.52         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 20       | 13.52         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 7        | 13.52         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 7        | 13.52         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 17       | 13.52         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 19       | 13.52         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 10       | 13.52         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 1        | 13.52         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 14       | 13.52         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 2        | 13.52         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 14       | 13.52         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 11       | 13.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 7        | 13.52         |
| (1,1203) | 1:A:4:ASN:HB3  | 1:A:17:GLY:HA2  | 7        | 13.52         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 19       | 13.52         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 16       | 13.52         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 20       | 13.51         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 20       | 13.51         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 15       | 13.51         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 15       | 13.51         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 4        | 13.51         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 9        | 13.51         |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1  | 14       | 13.51         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 10       | 13.51         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 10       | 13.51         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 13       | 13.51         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 4        | 13.51         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 18       | 13.51         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 6        | 13.51         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 15       | 13.51         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 15       | 13.51         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 5        | 13.51         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 8        | 13.51         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 8        | 13.51         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 13       | 13.51         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 20       | 13.51         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 20       | 13.51         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 14       | 13.51         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 1        | 13.51         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 8        | 13.51         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 12       | 13.51         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 7        | 13.51         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 7        | 13.51         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 9        | 13.51         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 7        | 13.51         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 5        | 13.51         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 2        | 13.51         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 17       | 13.51         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 12       | 13.51         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 4        | 13.51         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 8        | 13.51         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 18       | 13.51         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 18       | 13.51         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 20       | 13.51         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 20       | 13.51         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 13       | 13.51         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 19       | 13.51         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 19       | 13.51         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 13       | 13.51         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 20       | 13.51         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 4        | 13.51         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 16       | 13.51         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 16       | 13.51         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 16       | 13.51         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 18       | 13.51         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 18       | 13.51         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 18       | 13.51         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 20       | 13.51         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 20       | 13.51         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 2        | 13.51         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 2        | 13.51         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 15       | 13.51         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 5        | 13.51         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 5        | 13.51         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 10       | 13.51         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 10       | 13.51         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 13       | 13.5          |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 13       | 13.5          |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 5        | 13.5          |
| (1,774)  | 1:A:3:PRO:HB2  | 1:A:9:PRO:HA    | 9        | 13.5          |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 5        | 13.5          |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 5        | 13.5          |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 4        | 13.5          |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 4        | 13.5          |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 4        | 13.5          |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 4        | 13.5          |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 17       | 13.5          |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 17       | 13.5          |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 8        | 13.5          |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 8        | 13.5          |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 3        | 13.5          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 12       | 13.5          |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 5        | 13.5          |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 5        | 13.5          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 8        | 13.5          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 8        | 13.5          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 7        | 13.5          |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 19       | 13.5          |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 7        | 13.5          |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 7        | 13.5          |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 5        | 13.5          |
| (1,3060) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG3  | 20       | 13.5          |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 18       | 13.5          |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 18       | 13.5          |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 19       | 13.5          |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 19       | 13.5          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 20       | 13.5          |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 20       | 13.5          |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H    | 15       | 13.5          |
| (1,2536) | 1:A:10:GLY:HA3 | 1:A:19:CYS:H    | 17       | 13.5          |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 13       | 13.5          |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 3        | 13.5          |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 9        | 13.5          |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 15       | 13.5          |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 15       | 13.5          |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 15       | 13.5          |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 1        | 13.5          |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 1        | 13.5          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 14       | 13.5          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 14       | 13.5          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 8        | 13.5          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 8        | 13.5          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 8        | 13.5          |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 16       | 13.5          |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 18       | 13.5          |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 19       | 13.5          |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 20       | 13.5          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 2        | 13.5          |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 2        | 13.5          |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 13       | 13.5          |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 5        | 13.5          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 15       | 13.5          |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 15       | 13.5          |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 4        | 13.5          |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 4        | 13.5          |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 3        | 13.5          |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 5        | 13.5          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 15       | 13.5          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 8        | 13.5          |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 19       | 13.5          |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 19       | 13.5          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 20       | 13.5          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 20       | 13.5          |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 20       | 13.5          |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 16       | 13.5          |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 16       | 13.5          |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 3        | 13.5          |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 3        | 13.5          |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 1        | 13.49         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 13       | 13.49         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 6        | 13.49         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 6        | 13.49         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 2        | 13.49         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 2        | 13.49         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 2        | 13.49         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 2        | 13.49         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 16       | 13.49         |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 2        | 13.49         |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 2        | 13.49         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 9        | 13.49         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 10       | 13.49         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 10       | 13.49         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 15       | 13.49         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 5        | 13.49         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 5        | 13.49         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 6        | 13.49         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 6        | 13.49         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 13       | 13.49         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB2  | 16       | 13.49         |
| (1,2809) | 1:A:11:TRP:HE3 | 1:A:28:SER:HB3  | 16       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 1        | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 1        | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 11       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 11       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 16       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 16       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 18       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 18       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 19       | 13.49         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 19       | 13.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 3        | 13.49         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 3        | 13.49         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 13       | 13.49         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 13       | 13.49         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 16       | 13.49         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 7        | 13.49         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 7        | 13.49         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 7        | 13.49         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 8        | 13.49         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 7        | 13.49         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 15       | 13.49         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 4        | 13.49         |
| (1,1706) | 1:A:6:GLN:HG2  | 1:A:16:GLY:H    | 11       | 13.49         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 20       | 13.49         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 3        | 13.49         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 16       | 13.49         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 16       | 13.49         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD2  | 19       | 13.49         |
| (1,1448) | 1:A:5:GLY:H    | 1:A:30:PRO:HD3  | 19       | 13.49         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD2  | 8        | 13.49         |
| (1,1302) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HD3  | 8        | 13.49         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 13       | 13.49         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 13       | 13.49         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 13       | 13.49         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 14       | 13.49         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2  | 8        | 13.49         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3  | 8        | 13.49         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 19       | 13.49         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 19       | 13.49         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 15       | 13.48         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 10       | 13.48         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 11       | 13.48         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 4        | 13.48         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 17       | 13.48         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 17       | 13.48         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 15       | 13.48         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 15       | 13.48         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 15       | 13.48         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 15       | 13.48         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 11       | 13.48         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1  | 6        | 13.48         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 11       | 13.48         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 8        | 13.48         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 13       | 13.48         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 19       | 13.48         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 7        | 13.48         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 17       | 13.48         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 17       | 13.48         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 17       | 13.48         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 20       | 13.48         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 15       | 13.48         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 15       | 13.48         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 15       | 13.48         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 15       | 13.48         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 1        | 13.48         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 11       | 13.48         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 13       | 13.48         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 13       | 13.48         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 13       | 13.48         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 13       | 13.48         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 15       | 13.48         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 15       | 13.48         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 5        | 13.48         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 8        | 13.48         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 8        | 13.48         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 13       | 13.48         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 9        | 13.48         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 18       | 13.48         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 19       | 13.48         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 20       | 13.48         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 10       | 13.48         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 10       | 13.48         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 11       | 13.48         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 9        | 13.48         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 9        | 13.48         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 9        | 13.48         |
| (1,2209) | 1:A:9:PRO:HB2  | 1:A:19:CYS:H    | 17       | 13.48         |
| (1,2176) | 1:A:9:PRO:HA   | 1:A:27:GLY:HA3  | 17       | 13.48         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 4        | 13.48         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 4        | 13.48         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 15       | 13.48         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 15       | 13.48         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 1        | 13.48         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 8        | 13.48         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 9        | 13.48         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 19       | 13.48         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 1        | 13.48         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 3        | 13.48         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 12       | 13.48         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 17       | 13.48         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 17       | 13.48         |
| (1,1304) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HA   | 4        | 13.48         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 12       | 13.48         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2  | 18       | 13.48         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3  | 18       | 13.48         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 4        | 13.48         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 10       | 13.48         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 10       | 13.48         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 10       | 13.48         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 8        | 13.48         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 20       | 13.47         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 20       | 13.47         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 17       | 13.47         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 17       | 13.47         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 15       | 13.47         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 15       | 13.47         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 13       | 13.47         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 13       | 13.47         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 13       | 13.47         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 13       | 13.47         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 12       | 13.47         |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2  | 14       | 13.47         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 15       | 13.47         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 15       | 13.47         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 16       | 13.47         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 1        | 13.47         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 1        | 13.47         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 5        | 13.47         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2  | 7        | 13.47         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 7        | 13.47         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 20       | 13.47         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 17       | 13.47         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 17       | 13.47         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 9        | 13.47         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 2        | 13.47         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 12       | 13.47         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 18       | 13.47         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 19       | 13.47         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA  | 19       | 13.47         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H   | 15       | 13.47         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ1 | 8        | 13.47         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ2 | 8        | 13.47         |
| (1,2714) | 1:A:11:TRP:HB3 | 1:A:31:LYS:HZ3 | 8        | 13.47         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2 | 18       | 13.47         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3 | 6        | 13.47         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2 | 11       | 13.47         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3 | 11       | 13.47         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2 | 11       | 13.47         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3 | 11       | 13.47         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 1        | 13.47         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 1        | 13.47         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H   | 1        | 13.47         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H   | 12       | 13.47         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H   | 14       | 13.47         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2 | 14       | 13.47         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3 | 14       | 13.47         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H   | 18       | 13.47         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1 | 9        | 13.47         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA  | 16       | 13.47         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 11       | 13.47         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 11       | 13.47         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD2 | 19       | 13.47         |
| (1,1231) | 1:A:4:ASN:HB3  | 1:A:30:PRO:HD3 | 19       | 13.47         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB2 | 7        | 13.47         |
| (1,1111) | 1:A:4:ASN:H    | 1:A:33:CYS:HB3 | 7        | 13.47         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H   | 8        | 13.46         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H   | 8        | 13.46         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H   | 8        | 13.46         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H   | 15       | 13.46         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 3        | 13.46         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H   | 14       | 13.46         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 6        | 13.46         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2 | 14       | 13.46         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3 | 14       | 13.46         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1 | 3        | 13.46         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2 | 3        | 13.46         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3 | 16       | 13.46         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3 | 16       | 13.46         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 12       | 13.46         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 13       | 13.46         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 13       | 13.46         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 15       | 13.46         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 15       | 13.46         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 1        | 13.46         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 15       | 13.46         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 7        | 13.46         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 18       | 13.46         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 1        | 13.46         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 11       | 13.46         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 18       | 13.46         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 19       | 13.46         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG2  | 20       | 13.46         |
| (1,2666) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HG3  | 20       | 13.46         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 3        | 13.46         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 8        | 13.46         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 6        | 13.46         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 13       | 13.46         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 10       | 13.46         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 10       | 13.46         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 8        | 13.46         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 8        | 13.46         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 9        | 13.46         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 9        | 13.46         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 2        | 13.46         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 9        | 13.46         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 18       | 13.46         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 20       | 13.46         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 17       | 13.46         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 4        | 13.46         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 4        | 13.46         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 18       | 13.46         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 5        | 13.46         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 5        | 13.46         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 15       | 13.46         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 10       | 13.46         |
| (1,788)  | 1:A:3:PRO:HB2  | 1:A:17:GLY:H    | 15       | 13.45         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1  | 16       | 13.45         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 11       | 13.45         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 11       | 13.45         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 12       | 13.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD1  | 14       | 13.45         |
| (1,3465) | 1:A:16:GLY:H   | 1:A:23:TYR:HD2  | 14       | 13.45         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 8        | 13.45         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 11       | 13.45         |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 11       | 13.45         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 9        | 13.45         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 17       | 13.45         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 12       | 13.45         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 7        | 13.45         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 13       | 13.45         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 11       | 13.45         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 15       | 13.45         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 15       | 13.45         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 8        | 13.45         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 15       | 13.45         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 17       | 13.45         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 17       | 13.45         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 9        | 13.45         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 2        | 13.45         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 16       | 13.45         |
| (1,1609) | 1:A:6:GLN:HB2  | 1:A:32:TYR:H    | 19       | 13.45         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 7        | 13.45         |
| (1,1356) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HA   | 4        | 13.45         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 11       | 13.45         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 19       | 13.45         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 3        | 13.45         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 7        | 13.45         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 16       | 13.44         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 16       | 13.44         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 2        | 13.44         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 2        | 13.44         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 2        | 13.44         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 3        | 13.44         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 3        | 13.44         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 11       | 13.44         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 11       | 13.44         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 11       | 13.44         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 11       | 13.44         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 13       | 13.44         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1  | 18       | 13.44         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 11       | 13.44         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 2        | 13.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 2        | 13.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 13       | 13.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 13       | 13.44         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 8        | 13.44         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 9        | 13.44         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 10       | 13.44         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 7        | 13.44         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 1        | 13.44         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 1        | 13.44         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 1        | 13.44         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 1        | 13.44         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 13       | 13.44         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 13       | 13.44         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 7        | 13.44         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 14       | 13.44         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 14       | 13.44         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 5        | 13.44         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 9        | 13.44         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 9        | 13.44         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 9        | 13.44         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 9        | 13.44         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 12       | 13.44         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 12       | 13.44         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 2        | 13.44         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 2        | 13.44         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 12       | 13.44         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 12       | 13.44         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 1        | 13.44         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 1        | 13.44         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 10       | 13.44         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 10       | 13.44         |
| (1,2098) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HB3  | 17       | 13.44         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 3        | 13.44         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 3        | 13.44         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 1        | 13.44         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 13       | 13.44         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 10       | 13.44         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 11       | 13.44         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 17       | 13.44         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 14       | 13.44         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 18       | 13.44         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 18       | 13.44         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 19       | 13.44         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 19       | 13.44         |
| (1,1171) | 1:A:4:ASN:HB2  | 1:A:33:CYS:H   | 20       | 13.44         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2 | 19       | 13.44         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE  | 9        | 13.44         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1 | 4        | 13.44         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2 | 4        | 13.44         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA  | 18       | 13.43         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 18       | 13.43         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 17       | 13.43         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3 | 17       | 13.43         |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3 | 17       | 13.43         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2 | 17       | 13.43         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 10       | 13.43         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 10       | 13.43         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA  | 14       | 13.43         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H   | 6        | 13.43         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H   | 17       | 13.43         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3 | 2        | 13.43         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 3        | 13.43         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1 | 20       | 13.43         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2 | 20       | 13.43         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 9        | 13.43         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 9        | 13.43         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 9        | 13.43         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3 | 3        | 13.43         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2 | 11       | 13.43         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3 | 11       | 13.43         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 9        | 13.43         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3 | 16       | 13.43         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 10       | 13.43         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 1        | 13.43         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 12       | 13.43         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H   | 15       | 13.43         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3 | 5        | 13.43         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3 | 5        | 13.43         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 5        | 13.43         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 5        | 13.43         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 10       | 13.43         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 10       | 13.43         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 17       | 13.43         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 17       | 13.43         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ3 | 17       | 13.43         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB1 | 9        | 13.43         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB2 | 9        | 13.43         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB3 | 9        | 13.43         |
| (1,1450) | 1:A:5:GLY:H     | 1:A:33:CYS:HB2 | 9        | 13.43         |
| (1,1445) | 1:A:5:GLY:H     | 1:A:29:GLY:HA3 | 17       | 13.43         |
| (1,1351) | 1:A:4:ASN:HD22  | 1:A:20:CYS:HB3 | 8        | 13.43         |
| (1,1350) | 1:A:4:ASN:HD22  | 1:A:20:CYS:H   | 12       | 13.43         |
| (1,1348) | 1:A:4:ASN:HD22  | 1:A:19:CYS:HA  | 7        | 13.43         |
| (1,1337) | 1:A:4:ASN:HD22  | 1:A:15:ARG:H   | 6        | 13.43         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3 | 11       | 13.43         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3 | 12       | 13.43         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA2 | 8        | 13.43         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA3 | 8        | 13.43         |
| (1,1266) | 1:A:4:ASN:HD21  | 1:A:16:GLY:HA3 | 19       | 13.43         |
| (1,1081) | 1:A:4:ASN:H     | 1:A:22:GLN:HB2 | 18       | 13.43         |
| (1,922)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:HA  | 7        | 13.42         |
| (1,922)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:HA  | 7        | 13.42         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE1 | 18       | 13.42         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE2 | 18       | 13.42         |
| (1,795)  | 1:A:3:PRO:HB2   | 1:A:20:CYS:H   | 6        | 13.42         |
| (1,793)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:HA  | 5        | 13.42         |
| (1,522)  | 1:A:1:SER:HA    | 1:A:22:GLN:HB3 | 13       | 13.42         |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 12       | 13.42         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 4        | 13.42         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1 | 15       | 13.42         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2 | 15       | 13.42         |
| (1,3595) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG2 | 3        | 13.42         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD2 | 11       | 13.42         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD3 | 11       | 13.42         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE1 | 15       | 13.42         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE2 | 15       | 13.42         |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3 | 2        | 13.42         |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3 | 2        | 13.42         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD1 | 4        | 13.42         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD2 | 4        | 13.42         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD1 | 4        | 13.42         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD2 | 4        | 13.42         |
| (1,3333) | 1:A:15:ARG:HB3  | 1:A:23:TYR:HD1 | 11       | 13.42         |
| (1,3333) | 1:A:15:ARG:HB3  | 1:A:23:TYR:HD2 | 11       | 13.42         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1 | 19       | 13.42         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2 | 19       | 13.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 15       | 13.42         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 9        | 13.42         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 9        | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 18       | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 18       | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 18       | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 20       | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 20       | 13.42         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 20       | 13.42         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 10       | 13.42         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 14       | 13.42         |
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 7        | 13.42         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 20       | 13.42         |
| (1,2773) | 1:A:11:TRP:HD1 | 1:A:35:HIS:H    | 17       | 13.42         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 11       | 13.42         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 6        | 13.42         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 6        | 13.42         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 15       | 13.42         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 2        | 13.42         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 10       | 13.42         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 19       | 13.42         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 19       | 13.42         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 17       | 13.42         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 17       | 13.42         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 13       | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 1        | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 1        | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 1        | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 11       | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 11       | 13.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 11       | 13.42         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 12       | 13.42         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 3        | 13.42         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 3        | 13.42         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 3        | 13.42         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 16       | 13.42         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 16       | 13.42         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 18       | 13.42         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB1  | 2        | 13.42         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB2  | 2        | 13.42         |
| (1,1175) | 1:A:4:ASN:HB2  | 1:A:34:ALA:HB3  | 2        | 13.42         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 14       | 13.42         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1103) | 1:A:4:ASN:H     | 1:A:31:LYS:HG3  | 14       | 13.42         |
| (1,1080) | 1:A:4:ASN:H     | 1:A:22:GLN:HG2  | 4        | 13.42         |
| (1,967)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:H    | 16       | 13.41         |
| (1,967)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:H    | 20       | 13.41         |
| (1,922)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:HA   | 19       | 13.41         |
| (1,922)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:HA   | 19       | 13.41         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE1  | 16       | 13.41         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE2  | 16       | 13.41         |
| (1,793)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:HA   | 10       | 13.41         |
| (1,582)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB2  | 9        | 13.41         |
| (1,582)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB2  | 9        | 13.41         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 2        | 13.41         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 2        | 13.41         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 7        | 13.41         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 7        | 13.41         |
| (1,3628) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HE1  | 1        | 13.41         |
| (1,3628) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HE2  | 1        | 13.41         |
| (1,3624) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HB3  | 16       | 13.41         |
| (1,3595) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG2  | 10       | 13.41         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 3        | 13.41         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 3        | 13.41         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE1  | 12       | 13.41         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE2  | 12       | 13.41         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE1  | 12       | 13.41         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE2  | 12       | 13.41         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 5        | 13.41         |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 9        | 13.41         |
| (1,3139) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HE22 | 6        | 13.41         |
| (1,3084) | 1:A:12:GLY:HA3  | 1:A:35:HIS:HD2  | 18       | 13.41         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB1  | 19       | 13.41         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB2  | 19       | 13.41         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB3  | 19       | 13.41         |
| (1,3082) | 1:A:12:GLY:HA3  | 1:A:33:CYS:HB3  | 4        | 13.41         |
| (1,3006) | 1:A:12:GLY:H    | 1:A:22:GLN:HE21 | 10       | 13.41         |
| (1,3006) | 1:A:12:GLY:H    | 1:A:22:GLN:HE22 | 10       | 13.41         |
| (1,2919) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:HA3  | 8        | 13.41         |
| (1,2839) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HA   | 12       | 13.41         |
| (1,2714) | 1:A:11:TRP:HB3  | 1:A:31:LYS:HZ1  | 18       | 13.41         |
| (1,2714) | 1:A:11:TRP:HB3  | 1:A:31:LYS:HZ2  | 18       | 13.41         |
| (1,2714) | 1:A:11:TRP:HB3  | 1:A:31:LYS:HZ3  | 18       | 13.41         |
| (1,2671) | 1:A:11:TRP:HB2  | 1:A:33:CYS:H    | 13       | 13.41         |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD2  | 19       | 13.41         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD3  | 19       | 13.41         |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD2  | 19       | 13.41         |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD3  | 19       | 13.41         |
| (1,2420) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HB2  | 6        | 13.41         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD1  | 3        | 13.41         |
| (1,2282) | 1:A:9:PRO:HB3   | 1:A:32:TYR:HD2  | 3        | 13.41         |
| (1,2237) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HD1  | 15       | 13.41         |
| (1,2237) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HD2  | 15       | 13.41         |
| (1,2162) | 1:A:9:PRO:HA    | 1:A:22:GLN:HG3  | 3        | 13.41         |
| (1,2071) | 1:A:8:GLY:H     | 1:A:31:LYS:HZ1  | 19       | 13.41         |
| (1,2071) | 1:A:8:GLY:H     | 1:A:31:LYS:HZ2  | 19       | 13.41         |
| (1,2071) | 1:A:8:GLY:H     | 1:A:31:LYS:HZ3  | 19       | 13.41         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB1  | 18       | 13.41         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB2  | 18       | 13.41         |
| (1,1689) | 1:A:6:GLN:HB3   | 1:A:34:ALA:HB3  | 18       | 13.41         |
| (1,1611) | 1:A:6:GLN:HB2   | 1:A:33:CYS:H    | 13       | 13.41         |
| (1,1351) | 1:A:4:ASN:HD22  | 1:A:20:CYS:HB3  | 10       | 13.41         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA2  | 5        | 13.41         |
| (1,1268) | 1:A:4:ASN:HD21  | 1:A:17:GLY:HA3  | 5        | 13.41         |
| (1,1266) | 1:A:4:ASN:HD21  | 1:A:16:GLY:HA3  | 7        | 13.41         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE1  | 7        | 13.4          |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE2  | 7        | 13.4          |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB2  | 16       | 13.4          |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB3  | 16       | 13.4          |
| (1,593)  | 1:A:1:SER:HB2   | 1:A:35:HIS:HD2  | 19       | 13.4          |
| (1,593)  | 1:A:1:SER:HB3   | 1:A:35:HIS:HD2  | 19       | 13.4          |
| (1,582)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB2  | 16       | 13.4          |
| (1,582)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB2  | 16       | 13.4          |
| (1,4631) | 1:A:26:CYS:H    | 1:A:35:HIS:HE1  | 3        | 13.4          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 8        | 13.4          |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 5        | 13.4          |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 3        | 13.4          |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 3        | 13.4          |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 3        | 13.4          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 3        | 13.4          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 15       | 13.4          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 7        | 13.4          |
| (1,3539) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HB2  | 18       | 13.4          |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE21 | 17       | 13.4          |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE22 | 17       | 13.4          |
| (1,3481) | 1:A:16:GLY:H    | 1:A:31:LYS:HA   | 18       | 13.4          |
| (1,3481) | 1:A:16:GLY:H    | 1:A:31:LYS:HA   | 19       | 13.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB2  | 4        | 13.4          |
| (1,3437) | 1:A:15:ARG:HE  | 1:A:30:PRO:HB3  | 4        | 13.4          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 10       | 13.4          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 10       | 13.4          |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 9        | 13.4          |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 9        | 13.4          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 18       | 13.4          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 18       | 13.4          |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 3        | 13.4          |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 3        | 13.4          |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 6        | 13.4          |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 6        | 13.4          |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 20       | 13.4          |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 14       | 13.4          |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 10       | 13.4          |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 18       | 13.4          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 10       | 13.4          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 10       | 13.4          |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 7        | 13.4          |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 7        | 13.4          |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 7        | 13.4          |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 7        | 13.4          |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 6        | 13.4          |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 6        | 13.4          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 7        | 13.4          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 7        | 13.4          |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 10       | 13.4          |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 8        | 13.4          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 6        | 13.4          |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 6        | 13.4          |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 3        | 13.4          |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 4        | 13.4          |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 3        | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 19       | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 19       | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 19       | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 20       | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 20       | 13.4          |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 20       | 13.4          |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 2        | 13.4          |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 2        | 13.4          |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 2        | 13.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 5        | 13.4          |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 5        | 13.4          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 17       | 13.4          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 17       | 13.4          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 17       | 13.4          |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 5        | 13.4          |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 5        | 13.4          |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 19       | 13.4          |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 4        | 13.4          |
| (1,1162) | 1:A:4:ASN:HB2  | 1:A:29:GLY:H    | 20       | 13.4          |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 2        | 13.4          |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 18       | 13.4          |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 20       | 13.4          |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 14       | 13.39         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 2        | 13.39         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 13       | 13.39         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 6        | 13.39         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 6        | 13.39         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 13       | 13.39         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 13       | 13.39         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 20       | 13.39         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 8        | 13.39         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 11       | 13.39         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 11       | 13.39         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2  | 6        | 13.39         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 14       | 13.39         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 14       | 13.39         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 14       | 13.39         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 14       | 13.39         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 14       | 13.39         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 7        | 13.39         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 16       | 13.39         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 15       | 13.39         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 15       | 13.39         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 3        | 13.39         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 19       | 13.39         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3  | 19       | 13.39         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3  | 19       | 13.39         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 8        | 13.39         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 1        | 13.39         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 1        | 13.39         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 2        | 13.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2919) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:HA3  | 11       | 13.39         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 2        | 13.39         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 2        | 13.39         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 2        | 13.39         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 8        | 13.39         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 1        | 13.39         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 1        | 13.39         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 12       | 13.39         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 12       | 13.39         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 4        | 13.39         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 4        | 13.39         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 8        | 13.39         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 8        | 13.39         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 14       | 13.39         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 10       | 13.39         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 10       | 13.39         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 5        | 13.39         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 5        | 13.39         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 4        | 13.39         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 4        | 13.39         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 15       | 13.39         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 15       | 13.39         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 16       | 13.39         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 10       | 13.39         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 20       | 13.39         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 6        | 13.39         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 6        | 13.39         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 6        | 13.39         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 20       | 13.39         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 3        | 13.39         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 3        | 13.39         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 16       | 13.39         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 9        | 13.39         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 8        | 13.39         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 18       | 13.39         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 7        | 13.39         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 7        | 13.39         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 12       | 13.38         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 7        | 13.38         |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1  | 12       | 13.38         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 19       | 13.38         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 18       | 13.38         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 19       | 13.38         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 1        | 13.38         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 1        | 13.38         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 9        | 13.38         |
| (1,3500) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG3  | 6        | 13.38         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 10       | 13.38         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 10       | 13.38         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 19       | 13.38         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 7        | 13.38         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 7        | 13.38         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 9        | 13.38         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 9        | 13.38         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 4        | 13.38         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 4        | 13.38         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 6        | 13.38         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 6        | 13.38         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 4        | 13.38         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 4        | 13.38         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 4        | 13.38         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 17       | 13.38         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 2        | 13.38         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 5        | 13.38         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 8        | 13.38         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 1        | 13.38         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 1        | 13.38         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 1        | 13.38         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 1        | 13.38         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 9        | 13.38         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 9        | 13.38         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 1        | 13.38         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 19       | 13.38         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 10       | 13.38         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA2  | 3        | 13.38         |
| (1,2255) | 1:A:9:PRO:HB3  | 1:A:16:GLY:HA3  | 3        | 13.38         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 17       | 13.38         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 12       | 13.38         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 10       | 13.38         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 10       | 13.38         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 15       | 13.38         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 9        | 13.38         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 9        | 13.38         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 9        | 13.38         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 16       | 13.38         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 18       | 13.38         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 17       | 13.38         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 17       | 13.38         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 6        | 13.38         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 13       | 13.38         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 18       | 13.38         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 17       | 13.38         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 8        | 13.38         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 15       | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 2        | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 2        | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 2        | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 5        | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 5        | 13.38         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 5        | 13.38         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 11       | 13.38         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 19       | 13.38         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 17       | 13.38         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 7        | 13.37         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 18       | 13.37         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 9        | 13.37         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 9        | 13.37         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 1        | 13.37         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 5        | 13.37         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 10       | 13.37         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 7        | 13.37         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 7        | 13.37         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 7        | 13.37         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 7        | 13.37         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 20       | 13.37         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 20       | 13.37         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 20       | 13.37         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 20       | 13.37         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 17       | 13.37         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 2        | 13.37         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 9        | 13.37         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 11       | 13.37         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 14       | 13.37         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE1  | 14       | 13.37         |
| (1,3110) | 1:A:13:GLY:H   | 1:A:23:TYR:HE2  | 14       | 13.37         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 8        | 13.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 9        | 13.37         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 12       | 13.37         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 8        | 13.37         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 8        | 13.37         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 2        | 13.37         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 2        | 13.37         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 10       | 13.37         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 10       | 13.37         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB1  | 13       | 13.37         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB2  | 13       | 13.37         |
| (1,2894) | 1:A:11:TRP:HE1 | 1:A:34:ALA:HB3  | 13       | 13.37         |
| (1,2887) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HA   | 17       | 13.37         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 16       | 13.37         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 16       | 13.37         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 13       | 13.37         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE1  | 17       | 13.37         |
| (1,2550) | 1:A:10:GLY:HA3 | 1:A:23:TYR:HE2  | 17       | 13.37         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2  | 3        | 13.37         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 2        | 13.37         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 2        | 13.37         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 5        | 13.37         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 13.37         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 13.37         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 17       | 13.37         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 19       | 13.37         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 1        | 13.37         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 19       | 13.37         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 16       | 13.37         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 15       | 13.37         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 15       | 13.37         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE21 | 7        | 13.36         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE21 | 7        | 13.36         |
| (1,923)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HE22 | 7        | 13.36         |
| (1,923)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HE22 | 7        | 13.36         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 14       | 13.36         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 14       | 13.36         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 4        | 13.36         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 4        | 13.36         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 4        | 13.36         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 4        | 13.36         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 12       | 13.36         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 18       | 13.36         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE21 | 2        | 13.36         |
| (1,3560) | 1:A:17:GLY:H   | 1:A:22:GLN:HE22 | 2        | 13.36         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 20       | 13.36         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 6        | 13.36         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 14       | 13.36         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 14       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 18       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 18       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 19       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 19       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 20       | 13.36         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 20       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 18       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 18       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 19       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 19       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 20       | 13.36         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 20       | 13.36         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 5        | 13.36         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 5        | 13.36         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 15       | 13.36         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 1        | 13.36         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 1        | 13.36         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 1        | 13.36         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 11       | 13.36         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 19       | 13.36         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 4        | 13.36         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 15       | 13.36         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 15       | 13.36         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 15       | 13.36         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 15       | 13.36         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 20       | 13.36         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 20       | 13.36         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 1        | 13.36         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 11       | 13.36         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 7        | 13.36         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 7        | 13.36         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 13       | 13.36         |
| (1,1913) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HA   | 2        | 13.36         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 14       | 13.36         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 14       | 13.36         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 8        | 13.36         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 11       | 13.36         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 10       | 13.36         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 3        | 13.36         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 12       | 13.36         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 16       | 13.36         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 7        | 13.36         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 19       | 13.36         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 3        | 13.36         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 7        | 13.36         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 1        | 13.36         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 20       | 13.36         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 20       | 13.36         |
| (1,1034) | 1:A:3:PRO:HD3  | 1:A:28:SER:H    | 16       | 13.36         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 19       | 13.35         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 11       | 13.35         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 4        | 13.35         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 1        | 13.35         |
| (1,4132) | 1:A:22:GLN:H   | 1:A:35:HIS:HE1  | 10       | 13.35         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 17       | 13.35         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 17       | 13.35         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 14       | 13.35         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 14       | 13.35         |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 16       | 13.35         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 1        | 13.35         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 8        | 13.35         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 8        | 13.35         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 8        | 13.35         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 2        | 13.35         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 2        | 13.35         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 10       | 13.35         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 10       | 13.35         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 12       | 13.35         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 12       | 13.35         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 18       | 13.35         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 18       | 13.35         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 18       | 13.35         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 18       | 13.35         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 15       | 13.35         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 13       | 13.35         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB2  | 16       | 13.35         |
| (1,2954) | 1:A:11:TRP:HZ2 | 1:A:32:TYR:HB3  | 16       | 13.35         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 9        | 13.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 13       | 13.35         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 13       | 13.35         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 6        | 13.35         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 6        | 13.35         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 5        | 13.35         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 12       | 13.35         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 10       | 13.35         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 10       | 13.35         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 10       | 13.35         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 10       | 13.35         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 15       | 13.35         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 15       | 13.35         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 16       | 13.35         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 16       | 13.35         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 2        | 13.35         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 2        | 13.35         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 4        | 13.35         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 6        | 13.35         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 11       | 13.35         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 11       | 13.35         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 5        | 13.35         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 4        | 13.35         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 14       | 13.35         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 2        | 13.35         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 2        | 13.35         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 7        | 13.35         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 16       | 13.35         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 19       | 13.35         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 3        | 13.35         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 3        | 13.35         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 6        | 13.35         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 6        | 13.35         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 17       | 13.35         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 17       | 13.35         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 5        | 13.35         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 15       | 13.35         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 12       | 13.35         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 14       | 13.35         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 13       | 13.34         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 16       | 13.34         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 12       | 13.34         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 12       | 13.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 12       | 13.34         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 12       | 13.34         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 3        | 13.34         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 7        | 13.34         |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 4        | 13.34         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 9        | 13.34         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 12       | 13.34         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 3        | 13.34         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 3        | 13.34         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 4        | 13.34         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 5        | 13.34         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 5        | 13.34         |
| (1,3402) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HE21 | 19       | 13.34         |
| (1,3402) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HE21 | 19       | 13.34         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 12       | 13.34         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 12       | 13.34         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 4        | 13.34         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 4        | 13.34         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE2  | 18       | 13.34         |
| (1,3131) | 1:A:13:GLY:H   | 1:A:31:LYS:HE3  | 18       | 13.34         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 20       | 13.34         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 1        | 13.34         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 3        | 13.34         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB2  | 16       | 13.34         |
| (1,2933) | 1:A:11:TRP:HZ3 | 1:A:32:TYR:HB3  | 16       | 13.34         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 11       | 13.34         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 11       | 13.34         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 10       | 13.34         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 10       | 13.34         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 20       | 13.34         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 7        | 13.34         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 9        | 13.34         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 10       | 13.34         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 9        | 13.34         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 18       | 13.34         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 18       | 13.34         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 3        | 13.34         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 3        | 13.34         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 1        | 13.34         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 1        | 13.34         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 13       | 13.34         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 13       | 13.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 13       | 13.34         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 13       | 13.34         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 16       | 13.34         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 16       | 13.34         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 19       | 13.34         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 19       | 13.34         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 3        | 13.34         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 6        | 13.34         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 6        | 13.34         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 9        | 13.34         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 15       | 13.34         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 15       | 13.34         |
| (1,1727) | 1:A:6:GLN:HG2  | 1:A:28:SER:HB3  | 18       | 13.34         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 14       | 13.34         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 14       | 13.34         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 9        | 13.34         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 11       | 13.34         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 11       | 13.34         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 18       | 13.34         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 18       | 13.34         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 2        | 13.34         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 4        | 13.34         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 8        | 13.34         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 8        | 13.34         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 15       | 13.33         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 15       | 13.33         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 12       | 13.33         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 13       | 13.33         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 13       | 13.33         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 5        | 13.33         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 3        | 13.33         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 3        | 13.33         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 3        | 13.33         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 3        | 13.33         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 3        | 13.33         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 16       | 13.33         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 16       | 13.33         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 16       | 13.33         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 16       | 13.33         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 3        | 13.33         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 3        | 13.33         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 13       | 13.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 13       | 13.33         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 19       | 13.33         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 19       | 13.33         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 3        | 13.33         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 12       | 13.33         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 12       | 13.33         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 18       | 13.33         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 18       | 13.33         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 18       | 13.33         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 18       | 13.33         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 5        | 13.33         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 5        | 13.33         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 5        | 13.33         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 5        | 13.33         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 2        | 13.33         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 2        | 13.33         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 6        | 13.33         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 20       | 13.33         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 15       | 13.33         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 19       | 13.33         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 19       | 13.33         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2  | 11       | 13.33         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 13       | 13.33         |
| (1,2151) | 1:A:9:PRO:HA   | 1:A:18:LEU:H    | 6        | 13.33         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 4        | 13.33         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 4        | 13.33         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 6        | 13.33         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 1        | 13.33         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 1        | 13.33         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 15       | 13.33         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 15       | 13.33         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 4        | 13.33         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 4        | 13.33         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 6        | 13.33         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 6        | 13.33         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 11       | 13.33         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 12       | 13.33         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 12       | 13.33         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 12       | 13.33         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 12       | 13.33         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 12       | 13.33         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 19       | 13.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 19       | 13.33         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 4        | 13.33         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 19       | 13.32         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 18       | 13.32         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 2        | 13.32         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 3        | 13.32         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 5        | 13.32         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 16       | 13.32         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 18       | 13.32         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H    | 19       | 13.32         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 3        | 13.32         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 18       | 13.32         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 18       | 13.32         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 19       | 13.32         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 19       | 13.32         |
| (1,2682) | 1:A:11:TRP:HB3 | 1:A:17:GLY:HA2  | 9        | 13.32         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 2        | 13.32         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 2        | 13.32         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 3        | 13.32         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 13       | 13.32         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 11       | 13.32         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 15       | 13.32         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 4        | 13.32         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 4        | 13.32         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 10       | 13.32         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 10       | 13.32         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 14       | 13.32         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 14       | 13.32         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 18       | 13.32         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 18       | 13.32         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 2        | 13.32         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 3        | 13.32         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 5        | 13.32         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 6        | 13.32         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 1        | 13.32         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 8        | 13.32         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 20       | 13.32         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 7        | 13.32         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 5        | 13.32         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 5        | 13.32         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 5        | 13.32         |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 8        | 13.32         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1350) | 1:A:4:ASN:HD22  | 1:A:20:CYS:H   | 8        | 13.32         |
| (1,1167) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HZ1 | 9        | 13.32         |
| (1,1167) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HZ2 | 9        | 13.32         |
| (1,1167) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HZ3 | 9        | 13.32         |
| (1,1139) | 1:A:4:ASN:HB2   | 1:A:17:GLY:H   | 9        | 13.32         |
| (1,1139) | 1:A:4:ASN:HB2   | 1:A:17:GLY:H   | 20       | 13.32         |
| (1,1081) | 1:A:4:ASN:H     | 1:A:22:GLN:HB2 | 7        | 13.32         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H   | 4        | 13.32         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H   | 6        | 13.32         |
| (1,967)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:H   | 4        | 13.31         |
| (1,594)  | 1:A:1:SER:HB2   | 1:A:35:HIS:HE1 | 12       | 13.31         |
| (1,594)  | 1:A:1:SER:HB3   | 1:A:35:HIS:HE1 | 12       | 13.31         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 19       | 13.31         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2 | 4        | 13.31         |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3 | 5        | 13.31         |
| (1,3527) | 1:A:16:GLY:HA3  | 1:A:22:GLN:H   | 8        | 13.31         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB2 | 3        | 13.31         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB3 | 3        | 13.31         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1 | 9        | 13.31         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2 | 9        | 13.31         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ1 | 20       | 13.31         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ2 | 20       | 13.31         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ3 | 20       | 13.31         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG2 | 17       | 13.31         |
| (1,3142) | 1:A:13:GLY:HA2  | 1:A:30:PRO:HG3 | 17       | 13.31         |
| (1,3105) | 1:A:13:GLY:H    | 1:A:22:GLN:HG3 | 16       | 13.31         |
| (1,3044) | 1:A:12:GLY:HA2  | 1:A:28:SER:H   | 2        | 13.31         |
| (1,3044) | 1:A:12:GLY:HA2  | 1:A:28:SER:H   | 4        | 13.31         |
| (1,3044) | 1:A:12:GLY:HA2  | 1:A:28:SER:H   | 11       | 13.31         |
| (1,2954) | 1:A:11:TRP:HZ2  | 1:A:32:TYR:HB2 | 17       | 13.31         |
| (1,2954) | 1:A:11:TRP:HZ2  | 1:A:32:TYR:HB3 | 17       | 13.31         |
| (1,2786) | 1:A:11:TRP:HE3  | 1:A:17:GLY:HA2 | 5        | 13.31         |
| (1,2786) | 1:A:11:TRP:HE3  | 1:A:17:GLY:HA3 | 5        | 13.31         |
| (1,2692) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HG2 | 12       | 13.31         |
| (1,2643) | 1:A:11:TRP:HB2  | 1:A:17:GLY:HA2 | 16       | 13.31         |
| (1,2482) | 1:A:10:GLY:H    | 1:A:32:TYR:HB3 | 10       | 13.31         |
| (1,2422) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HE1 | 16       | 13.31         |
| (1,2150) | 1:A:9:PRO:HA    | 1:A:16:GLY:H   | 14       | 13.31         |
| (1,2070) | 1:A:8:GLY:H     | 1:A:31:LYS:HE2 | 8        | 13.31         |
| (1,2070) | 1:A:8:GLY:H     | 1:A:31:LYS:HE3 | 8        | 13.31         |
| (1,1751) | 1:A:6:GLN:HG3   | 1:A:16:GLY:HA2 | 1        | 13.31         |
| (1,1727) | 1:A:6:GLN:HG2   | 1:A:28:SER:HB3 | 20       | 13.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 10       | 13.31         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 5        | 13.31         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 5        | 13.31         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 20       | 13.31         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 13       | 13.31         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 17       | 13.31         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 6        | 13.31         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 6        | 13.31         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE1  | 15       | 13.31         |
| (1,1028) | 1:A:3:PRO:HD3  | 1:A:23:TYR:HE2  | 15       | 13.31         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 3        | 13.31         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 8        | 13.3          |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 18       | 13.3          |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 19       | 13.3          |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 20       | 13.3          |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 6        | 13.3          |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 10       | 13.3          |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 10       | 13.3          |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 10       | 13.3          |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 14       | 13.3          |
| (1,4386) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HE1  | 18       | 13.3          |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 11       | 13.3          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 2        | 13.3          |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 2        | 13.3          |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 12       | 13.3          |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 12       | 13.3          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 12       | 13.3          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 12       | 13.3          |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 12       | 13.3          |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 14       | 13.3          |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 12       | 13.3          |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 19       | 13.3          |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 1        | 13.3          |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 12       | 13.3          |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 10       | 13.3          |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 10       | 13.3          |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 8        | 13.3          |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 8        | 13.3          |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 16       | 13.3          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 16       | 13.3          |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 16       | 13.3          |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 10       | 13.3          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 18       | 13.3          |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 3        | 13.3          |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 3        | 13.3          |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 7        | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 3        | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 3        | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 3        | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 10       | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 10       | 13.3          |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 10       | 13.3          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 10       | 13.3          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 10       | 13.3          |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 4        | 13.3          |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 19       | 13.3          |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 9        | 13.3          |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 6        | 13.3          |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 3        | 13.3          |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 6        | 13.3          |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 2        | 13.3          |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 2        | 13.3          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 6        | 13.3          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 6        | 13.3          |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 15       | 13.3          |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 7        | 13.3          |
| (1,1450) | 1:A:5:GLY:H    | 1:A:33:CYS:HB2  | 7        | 13.3          |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 14       | 13.3          |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 14       | 13.3          |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 17       | 13.3          |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 14       | 13.3          |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 15       | 13.3          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 16       | 13.29         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 16       | 13.29         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 14       | 13.29         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 13       | 13.29         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 13       | 13.29         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 14       | 13.29         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 14       | 13.29         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 19       | 13.29         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 19       | 13.29         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1  | 13       | 13.29         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 7        | 13.29         |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3  | 13       | 13.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3  | 13       | 13.29         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 8        | 13.29         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 7        | 13.29         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 7        | 13.29         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 7        | 13.29         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 12       | 13.29         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 4        | 13.29         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 4        | 13.29         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 14       | 13.29         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 14       | 13.29         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 2        | 13.29         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 2        | 13.29         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 9        | 13.29         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 18       | 13.29         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 17       | 13.29         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 17       | 13.29         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 15       | 13.29         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 7        | 13.29         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 7        | 13.29         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 14       | 13.29         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 14       | 13.29         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 2        | 13.29         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 3        | 13.29         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 6        | 13.29         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 7        | 13.29         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 19       | 13.29         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 20       | 13.29         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 4        | 13.29         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 5        | 13.29         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 5        | 13.29         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 1        | 13.29         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 4        | 13.29         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 4        | 13.29         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 4        | 13.29         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 2        | 13.29         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 5        | 13.29         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 10       | 13.29         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 1        | 13.29         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 1        | 13.29         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 20       | 13.29         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 20       | 13.29         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 5        | 13.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 5        | 13.29         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 7        | 13.29         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 18       | 13.29         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 11       | 13.29         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 4        | 13.29         |
| (1,1348) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HA   | 20       | 13.29         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 18       | 13.29         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 15       | 13.29         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 13       | 13.29         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 13       | 13.29         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 13       | 13.29         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 19       | 13.29         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 19       | 13.29         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 14       | 13.28         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 1        | 13.28         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 16       | 13.28         |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 12       | 13.28         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2  | 18       | 13.28         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1  | 2        | 13.28         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2  | 2        | 13.28         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1  | 10       | 13.28         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2  | 10       | 13.28         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 6        | 13.28         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 6        | 13.28         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 5        | 13.28         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 5        | 13.28         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 9        | 13.28         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 1        | 13.28         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 1        | 13.28         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 6        | 13.28         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 16       | 13.28         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 15       | 13.28         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 5        | 13.28         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 5        | 13.28         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 13       | 13.28         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 13       | 13.28         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 6        | 13.28         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 12       | 13.28         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 12       | 13.28         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 13       | 13.28         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 5        | 13.28         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 6        | 13.28         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 7        | 13.28         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 13       | 13.28         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 19       | 13.28         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H    | 13       | 13.28         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 15       | 13.28         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 15       | 13.28         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 4        | 13.28         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 5        | 13.28         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 8        | 13.28         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 16       | 13.28         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 3        | 13.28         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 3        | 13.28         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 20       | 13.28         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 5        | 13.28         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 14       | 13.28         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 1        | 13.28         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 1        | 13.28         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 1        | 13.28         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 6        | 13.28         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 8        | 13.28         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 8        | 13.28         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 20       | 13.28         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 20       | 13.28         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 10       | 13.28         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 10       | 13.28         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 5        | 13.28         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 8        | 13.28         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 7        | 13.28         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 7        | 13.28         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 7        | 13.28         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 5        | 13.28         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 5        | 13.28         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 9        | 13.28         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 16       | 13.28         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 1        | 13.28         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 1        | 13.28         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 12       | 13.28         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 4        | 13.27         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 4        | 13.27         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 9        | 13.27         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 16       | 13.27         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 12       | 13.27         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 15       | 13.27         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 3        | 13.27         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 3        | 13.27         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 3        | 13.27         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 3        | 13.27         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 5        | 13.27         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 5        | 13.27         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 5        | 13.27         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 5        | 13.27         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 15       | 13.27         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 17       | 13.27         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 18       | 13.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 14       | 13.27         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 14       | 13.27         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 5        | 13.27         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1  | 1        | 13.27         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2  | 1        | 13.27         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 3        | 13.27         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 9        | 13.27         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 9        | 13.27         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 12       | 13.27         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 16       | 13.27         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 16       | 13.27         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 6        | 13.27         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 6        | 13.27         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 15       | 13.27         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 15       | 13.27         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 8        | 13.27         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 8        | 13.27         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 18       | 13.27         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 20       | 13.27         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 20       | 13.27         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 10       | 13.27         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 13       | 13.27         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 13       | 13.27         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 20       | 13.27         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 20       | 13.27         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 7        | 13.27         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 7        | 13.27         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 7        | 13.27         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 16       | 13.27         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 16       | 13.27         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 16       | 13.27         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD1  | 17       | 13.27         |
| (1,2569) | 1:A:10:GLY:HA3 | 1:A:32:TYR:HD2  | 17       | 13.27         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 9        | 13.27         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 18       | 13.27         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 19       | 13.27         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 12       | 13.27         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 12       | 13.27         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 12       | 13.27         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 8        | 13.27         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 13       | 13.27         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 13       | 13.27         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 13       | 13.27         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 3        | 13.27         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 4        | 13.27         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 3        | 13.27         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 3        | 13.27         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 6        | 13.27         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 6        | 13.27         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 11       | 13.27         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 6        | 13.27         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 16       | 13.27         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 16       | 13.27         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 16       | 13.27         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 10       | 13.27         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 10       | 13.27         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 14       | 13.27         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 18       | 13.27         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 8        | 13.27         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 3        | 13.27         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 10       | 13.27         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 10       | 13.27         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 3        | 13.27         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 3        | 13.26         |
| (1,855)  | 1:A:3:PRO:HB3  | 1:A:20:CYS:H    | 7        | 13.26         |
| (1,851)  | 1:A:3:PRO:HB3  | 1:A:17:GLY:H    | 15       | 13.26         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 11       | 13.26         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 11       | 13.26         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 6        | 13.26         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 6        | 13.26         |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1  | 14       | 13.26         |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1  | 14       | 13.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 17       | 13.26         |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3  | 4        | 13.26         |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3  | 4        | 13.26         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 6        | 13.26         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 16       | 13.26         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 5        | 13.26         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 5        | 13.26         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 5        | 13.26         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 15       | 13.26         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 15       | 13.26         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 5        | 13.26         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 8        | 13.26         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 15       | 13.26         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 15       | 13.26         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 1        | 13.26         |
| (1,3044) | 1:A:12:GLY:HA2 | 1:A:28:SER:H    | 16       | 13.26         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 5        | 13.26         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 5        | 13.26         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 14       | 13.26         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 14       | 13.26         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 5        | 13.26         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 5        | 13.26         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 6        | 13.26         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 6        | 13.26         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 17       | 13.26         |
| (1,2544) | 1:A:10:GLY:HA3 | 1:A:22:GLN:H    | 17       | 13.26         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 12       | 13.26         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 15       | 13.26         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 6        | 13.26         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 17       | 13.26         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 17       | 13.26         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 16       | 13.26         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 6        | 13.26         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 6        | 13.26         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 6        | 13.26         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 6        | 13.26         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 13       | 13.26         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 13       | 13.26         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 9        | 13.26         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 12       | 13.26         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 16       | 13.26         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 10       | 13.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 9        | 13.26         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 12       | 13.26         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 13       | 13.26         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 13       | 13.26         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 5        | 13.26         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 8        | 13.26         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 8        | 13.26         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 11       | 13.26         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 19       | 13.26         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 3        | 13.26         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 10       | 13.26         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 19       | 13.26         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 2        | 13.26         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 10       | 13.26         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 9        | 13.26         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 9        | 13.26         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 17       | 13.26         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 17       | 13.26         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 4        | 13.26         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 20       | 13.25         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 20       | 13.25         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 11       | 13.25         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 6        | 13.25         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 18       | 13.25         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 18       | 13.25         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 18       | 13.25         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 18       | 13.25         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 2        | 13.25         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 10       | 13.25         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 10       | 13.25         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 9        | 13.25         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 9        | 13.25         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 17       | 13.25         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 17       | 13.25         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 2        | 13.25         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 2        | 13.25         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 20       | 13.25         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 17       | 13.25         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 17       | 13.25         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA   | 16       | 13.25         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 13       | 13.25         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 13       | 13.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 13       | 13.25         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 4        | 13.25         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 16       | 13.25         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 16       | 13.25         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 18       | 13.25         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 18       | 13.25         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 20       | 13.25         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 20       | 13.25         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 1        | 13.25         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 2        | 13.25         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 2        | 13.25         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 3        | 13.25         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 3        | 13.25         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 20       | 13.25         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 11       | 13.25         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 7        | 13.25         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 7        | 13.25         |
| (1,2447) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB2  | 17       | 13.25         |
| (1,2447) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB2  | 17       | 13.25         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 11       | 13.25         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 11       | 13.25         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 20       | 13.25         |
| (1,2131) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HB3  | 17       | 13.25         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 18       | 13.25         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 14       | 13.25         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 12       | 13.25         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 11       | 13.25         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 2        | 13.25         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 3        | 13.25         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 14       | 13.25         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 1        | 13.25         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 5        | 13.25         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 17       | 13.25         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 18       | 13.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 9        | 13.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 9        | 13.25         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 9        | 13.25         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 4        | 13.25         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 6        | 13.25         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 1        | 13.25         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 1        | 13.25         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 1        | 13.25         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB1 | 11       | 13.25         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB2 | 11       | 13.25         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB3 | 11       | 13.25         |
| (1,1350) | 1:A:4:ASN:HD22  | 1:A:20:CYS:H   | 7        | 13.25         |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE  | 12       | 13.25         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB1 | 14       | 13.25         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB2 | 14       | 13.25         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB3 | 14       | 13.25         |
| (1,1172) | 1:A:4:ASN:HB2   | 1:A:33:CYS:HA  | 9        | 13.25         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 17       | 13.25         |
| (1,1081) | 1:A:4:ASN:H     | 1:A:22:GLN:HB2 | 5        | 13.25         |
| (1,922)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:HA  | 3        | 13.24         |
| (1,922)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:HA  | 3        | 13.24         |
| (1,851)  | 1:A:3:PRO:HB3   | 1:A:17:GLY:H   | 14       | 13.24         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB2 | 12       | 13.24         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB3 | 12       | 13.24         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB2 | 13       | 13.24         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB3 | 13       | 13.24         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD2 | 7        | 13.24         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD3 | 7        | 13.24         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD2 | 7        | 13.24         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD3 | 7        | 13.24         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG2 | 17       | 13.24         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG3 | 17       | 13.24         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG2 | 17       | 13.24         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG3 | 17       | 13.24         |
| (1,4740) | 1:A:28:SER:H    | 1:A:35:HIS:HE1 | 8        | 13.24         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 9        | 13.24         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 9        | 13.24         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD1 | 18       | 13.24         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD2 | 18       | 13.24         |
| (1,3557) | 1:A:17:GLY:H    | 1:A:22:GLN:HA  | 18       | 13.24         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD2 | 18       | 13.24         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD3 | 18       | 13.24         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3 | 9        | 13.24         |
| (1,3481) | 1:A:16:GLY:H    | 1:A:31:LYS:HA  | 10       | 13.24         |
| (1,3412) | 1:A:15:ARG:HD2  | 1:A:31:LYS:H   | 6        | 13.24         |
| (1,3412) | 1:A:15:ARG:HD3  | 1:A:31:LYS:H   | 6        | 13.24         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD1 | 3        | 13.24         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD2 | 3        | 13.24         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD1 | 3        | 13.24         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD2 | 3        | 13.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 10       | 13.24         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 3        | 13.24         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 17       | 13.24         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG2  | 19       | 13.24         |
| (1,3142) | 1:A:13:GLY:HA2 | 1:A:30:PRO:HG3  | 19       | 13.24         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 11       | 13.24         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 6        | 13.24         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 6        | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 4        | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 4        | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 8        | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 8        | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 12       | 13.24         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 12       | 13.24         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 7        | 13.24         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 18       | 13.24         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 19       | 13.24         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 12       | 13.24         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 1        | 13.24         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 11       | 13.24         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 14       | 13.24         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 2        | 13.24         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 2        | 13.24         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 2        | 13.24         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 6        | 13.24         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 6        | 13.24         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 7        | 13.24         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 18       | 13.24         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 19       | 13.24         |
| (1,2189) | 1:A:9:PRO:HA   | 1:A:35:HIS:H    | 17       | 13.24         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 19       | 13.24         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 19       | 13.24         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 20       | 13.24         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 20       | 13.24         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 15       | 13.24         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 16       | 13.24         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 9        | 13.24         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 10       | 13.23         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 10       | 13.23         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 3        | 13.23         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 3        | 13.23         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 11       | 13.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 1        | 13.23         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 1        | 13.23         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 12       | 13.23         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 3        | 13.23         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 3        | 13.23         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 7        | 13.23         |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 19       | 13.23         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 8        | 13.23         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 8        | 13.23         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 8        | 13.23         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 8        | 13.23         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 8        | 13.23         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 12       | 13.23         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 1        | 13.23         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 14       | 13.23         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 14       | 13.23         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 15       | 13.23         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 15       | 13.23         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 18       | 13.23         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 19       | 13.23         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 14       | 13.23         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 8        | 13.23         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 9        | 13.23         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 20       | 13.23         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 9        | 13.23         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 9        | 13.23         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 5        | 13.23         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 5        | 13.23         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 5        | 13.23         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 5        | 13.23         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 5        | 13.23         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 10       | 13.23         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 18       | 13.23         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 6        | 13.23         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 6        | 13.23         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 12       | 13.23         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 12       | 13.23         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 5        | 13.23         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 5        | 13.23         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 7        | 13.23         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 10       | 13.23         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 12       | 13.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 14       | 13.23         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 5        | 13.23         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 18       | 13.23         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 19       | 13.23         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 20       | 13.23         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 8        | 13.23         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 8        | 13.23         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 9        | 13.23         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA   | 1        | 13.23         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 9        | 13.23         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 15       | 13.23         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 2        | 13.22         |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 2        | 13.22         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 9        | 13.22         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 16       | 13.22         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 16       | 13.22         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 7        | 13.22         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 17       | 13.22         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 1        | 13.22         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 2        | 13.22         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 13       | 13.22         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2  | 19       | 13.22         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3  | 19       | 13.22         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2  | 19       | 13.22         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3  | 19       | 13.22         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 12       | 13.22         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 12       | 13.22         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 12       | 13.22         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 12       | 13.22         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 4        | 13.22         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 4        | 13.22         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 18       | 13.22         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 18       | 13.22         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 19       | 13.22         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 19       | 13.22         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 17       | 13.22         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 17       | 13.22         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 20       | 13.22         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 5        | 13.22         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 5        | 13.22         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 15       | 13.22         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 15       | 13.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 12       | 13.22         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 12       | 13.22         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 11       | 13.22         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 1        | 13.22         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2  | 9        | 13.22         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3  | 9        | 13.22         |
| (1,2671) | 1:A:11:TRP:HB2 | 1:A:33:CYS:H    | 16       | 13.22         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 2        | 13.22         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 18       | 13.22         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 19       | 13.22         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 13       | 13.22         |
| (1,2509) | 1:A:10:GLY:HA2 | 1:A:27:GLY:H    | 17       | 13.22         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 3        | 13.22         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 3        | 13.22         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 7        | 13.22         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 7        | 13.22         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 12       | 13.22         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 12       | 13.22         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 12       | 13.22         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 12       | 13.22         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 3        | 13.22         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 3        | 13.22         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 3        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 2        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 2        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 3        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 3        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 4        | 13.22         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 4        | 13.22         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 18       | 13.22         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 14       | 13.22         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 14       | 13.22         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 13       | 13.22         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 15       | 13.22         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 7        | 13.22         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 7        | 13.22         |
| (1,1611) | 1:A:6:GLN:HB2  | 1:A:33:CYS:H    | 16       | 13.22         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 4        | 13.22         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 2        | 13.22         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 4        | 13.21         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 4        | 13.21         |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 5        | 13.21         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA  | 5        | 13.21         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 1        | 13.21         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 1        | 13.21         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 8        | 13.21         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H   | 8        | 13.21         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3 | 9        | 13.21         |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1 | 14       | 13.21         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 5        | 13.21         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 5        | 13.21         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2 | 20       | 13.21         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 3        | 13.21         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 3        | 13.21         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3 | 4        | 13.21         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3 | 6        | 13.21         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 10       | 13.21         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 16       | 13.21         |
| (1,3047) | 1:A:12:GLY:HA2 | 1:A:33:CYS:H   | 17       | 13.21         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 5        | 13.21         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 5        | 13.21         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 6        | 13.21         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 6        | 13.21         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 12       | 13.21         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE2 | 18       | 13.21         |
| (1,2766) | 1:A:11:TRP:HD1 | 1:A:31:LYS:HE3 | 18       | 13.21         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 18       | 13.21         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 19       | 13.21         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H   | 16       | 13.21         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3 | 2        | 13.21         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3 | 10       | 13.21         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 8        | 13.21         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 8        | 13.21         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2 | 1        | 13.21         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3 | 1        | 13.21         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2 | 13       | 13.21         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1 | 18       | 13.21         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2 | 18       | 13.21         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 1        | 13.21         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 6        | 13.21         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 11       | 13.21         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 5        | 13.21         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 10       | 13.21         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 13       | 13.21         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 9        | 13.21         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 9        | 13.21         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 9        | 13.21         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 14       | 13.21         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 20       | 13.21         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 20       | 13.21         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 20       | 13.21         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 3        | 13.21         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 14       | 13.21         |
| (1,1168) | 1:A:4:ASN:HB2  | 1:A:32:TYR:H    | 20       | 13.21         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG2  | 20       | 13.21         |
| (1,1103) | 1:A:4:ASN:H    | 1:A:31:LYS:HG3  | 20       | 13.21         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 17       | 13.2          |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 2        | 13.2          |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 6        | 13.2          |
| (1,922)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:HA   | 6        | 13.2          |
| (1,922)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:HA   | 6        | 13.2          |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 5        | 13.2          |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 13       | 13.2          |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 13       | 13.2          |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 13       | 13.2          |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 13       | 13.2          |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3  | 16       | 13.2          |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2  | 15       | 13.2          |
| (1,3557) | 1:A:17:GLY:H   | 1:A:22:GLN:HA   | 16       | 13.2          |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 14       | 13.2          |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 7        | 13.2          |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 7        | 13.2          |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 9        | 13.2          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE21 | 1        | 13.2          |
| (1,3296) | 1:A:15:ARG:HB2 | 1:A:22:GLN:HE22 | 1        | 13.2          |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 1        | 13.2          |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 3        | 13.2          |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 3        | 13.2          |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 10       | 13.2          |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 6        | 13.2          |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 6        | 13.2          |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 14       | 13.2          |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 15       | 13.2          |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 15       | 13.2          |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 3        | 13.2          |
| (1,2614) | 1:A:11:TRP:H   | 1:A:35:HIS:HB2  | 1        | 13.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 3        | 13.2          |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 13       | 13.2          |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 15       | 13.2          |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 20       | 13.2          |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 7        | 13.2          |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 15       | 13.2          |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 15       | 13.2          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 6        | 13.2          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 6        | 13.2          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 12       | 13.2          |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 12       | 13.2          |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 10       | 13.2          |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 10       | 13.2          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 14       | 13.2          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 14       | 13.2          |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 3        | 13.2          |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA   | 4        | 13.2          |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 5        | 13.2          |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 5        | 13.2          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 8        | 13.2          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 8        | 13.2          |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 7        | 13.2          |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 12       | 13.2          |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 15       | 13.2          |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 15       | 13.2          |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 3        | 13.2          |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 5        | 13.2          |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 15       | 13.2          |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 16       | 13.2          |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 2        | 13.2          |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 11       | 13.2          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 4        | 13.2          |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 17       | 13.2          |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 4        | 13.2          |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 6        | 13.2          |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H    | 10       | 13.19         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 8        | 13.19         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 12       | 13.19         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 14       | 13.19         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 17       | 13.19         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 5        | 13.19         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 11       | 13.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 11       | 13.19         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 6        | 13.19         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 6        | 13.19         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 6        | 13.19         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 9        | 13.19         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 9        | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 2        | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 2        | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 3        | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 3        | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 10       | 13.19         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 10       | 13.19         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 11       | 13.19         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 11       | 13.19         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB2  | 17       | 13.19         |
| (1,2756) | 1:A:11:TRP:HD1 | 1:A:28:SER:HB3  | 17       | 13.19         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 20       | 13.19         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 7        | 13.19         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 7        | 13.19         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 4        | 13.19         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3  | 5        | 13.19         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 10       | 13.19         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 10       | 13.19         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 15       | 13.19         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 15       | 13.19         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 4        | 13.19         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 4        | 13.19         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 9        | 13.19         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 2        | 13.19         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 2        | 13.19         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 2        | 13.19         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 11       | 13.19         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 11       | 13.19         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB2  | 20       | 13.19         |
| (1,1861) | 1:A:6:GLN:HE21 | 1:A:35:HIS:HB3  | 20       | 13.19         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 13       | 13.19         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 20       | 13.19         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 10       | 13.19         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 10       | 13.19         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 20       | 13.19         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 17       | 13.19         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 19       | 13.19         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2 | 12       | 13.19         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3 | 12       | 13.19         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 4        | 13.19         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H   | 12       | 13.19         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H   | 1        | 13.19         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 3        | 13.19         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2 | 20       | 13.19         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3 | 20       | 13.19         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2 | 10       | 13.19         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 6        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1 | 1        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2 | 1        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1 | 2        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2 | 2        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1 | 5        | 13.18         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2 | 5        | 13.18         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2 | 3        | 13.18         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3 | 3        | 13.18         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2 | 3        | 13.18         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3 | 3        | 13.18         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 3        | 13.18         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 3        | 13.18         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 3        | 13.18         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 3        | 13.18         |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1 | 2        | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 1        | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 1        | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 11       | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 11       | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 13       | 13.18         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 13       | 13.18         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE1 | 20       | 13.18         |
| (1,3600) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HE2 | 20       | 13.18         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2 | 14       | 13.18         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 14       | 13.18         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2 | 8        | 13.18         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3 | 8        | 13.18         |
| (1,3481) | 1:A:16:GLY:H   | 1:A:31:LYS:HA  | 17       | 13.18         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1 | 20       | 13.18         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2 | 20       | 13.18         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 1        | 13.18         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 1        | 13.18         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1 | 7        | 13.18         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2 | 7        | 13.18         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1 | 8        | 13.18         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2 | 8        | 13.18         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3 | 4        | 13.18         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3 | 13       | 13.18         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 4        | 13.18         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 4        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2 | 1        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3 | 1        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2 | 7        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3 | 7        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2 | 9        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3 | 9        | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2 | 20       | 13.18         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3 | 20       | 13.18         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 2        | 13.18         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 4        | 13.18         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3 | 6        | 13.18         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 14       | 13.18         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 14       | 13.18         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA  | 20       | 13.18         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 15       | 13.18         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 2        | 13.18         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 18       | 13.18         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 12       | 13.18         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 16       | 13.18         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 20       | 13.18         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2 | 4        | 13.18         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3 | 4        | 13.18         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 5        | 13.18         |
| (1,967)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:H   | 5        | 13.17         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H   | 4        | 13.17         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 8        | 13.17         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 8        | 13.17         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 9        | 13.17         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 9        | 13.17         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 14       | 13.17         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 14       | 13.17         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 14       | 13.17         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 14       | 13.17         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 14       | 13.17         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 14       | 13.17         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 6        | 13.17         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 6        | 13.17         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 17       | 13.17         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 17       | 13.17         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2 | 8        | 13.17         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3 | 8        | 13.17         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 12       | 13.17         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3 | 11       | 13.17         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3 | 11       | 13.17         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 6        | 13.17         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 6        | 13.17         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 14       | 13.17         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 20       | 13.17         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2 | 16       | 13.17         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3 | 16       | 13.17         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H   | 12       | 13.17         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 5        | 13.17         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 6        | 13.17         |
| (1,2584) | 1:A:11:TRP:H   | 1:A:17:GLY:H   | 14       | 13.17         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H   | 1        | 13.17         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3 | 3        | 13.17         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 2        | 13.17         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 2        | 13.17         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 1        | 13.17         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 1        | 13.17         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 11       | 13.17         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 11       | 13.17         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 6        | 13.17         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 13       | 13.17         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2 | 2        | 13.17         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3 | 2        | 13.17         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2 | 8        | 13.17         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA  | 12       | 13.17         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H   | 1        | 13.17         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 14       | 13.17         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2 | 9        | 13.17         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3 | 9        | 13.17         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2 | 13       | 13.17         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3 | 13       | 13.17         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 10       | 13.17         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 2        | 13.17         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 13       | 13.17         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 4        | 13.17         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 6        | 13.17         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 3        | 13.16         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 3        | 13.16         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 1        | 13.16         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 1        | 13.16         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 14       | 13.16         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 8        | 13.16         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 15       | 13.16         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 5        | 13.16         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 1        | 13.16         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 1        | 13.16         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 1        | 13.16         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 1        | 13.16         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 4        | 13.16         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 10       | 13.16         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 17       | 13.16         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 19       | 13.16         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1  | 3        | 13.16         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2  | 3        | 13.16         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 8        | 13.16         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 20       | 13.16         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 20       | 13.16         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 4        | 13.16         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 10       | 13.16         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 6        | 13.16         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 6        | 13.16         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 17       | 13.16         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 17       | 13.16         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 13       | 13.16         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 14       | 13.16         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 20       | 13.16         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 20       | 13.16         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 18       | 13.16         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 8        | 13.16         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 5        | 13.16         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 5        | 13.16         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 18       | 13.16         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 18       | 13.16         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 19       | 13.16         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 19       | 13.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 12       | 13.16         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 12       | 13.16         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 12       | 13.16         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 20       | 13.16         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 11       | 13.16         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 19       | 13.16         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 19       | 13.16         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 4        | 13.16         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 4        | 13.16         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 16       | 13.16         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 18       | 13.16         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 7        | 13.16         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 8        | 13.16         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 16       | 13.16         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 18       | 13.16         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 19       | 13.16         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 11       | 13.16         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 11       | 13.16         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 11       | 13.16         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE1  | 17       | 13.16         |
| (1,2238) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HE2  | 17       | 13.16         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 2        | 13.16         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2  | 2        | 13.16         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 10       | 13.16         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 10       | 13.16         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 4        | 13.16         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 4        | 13.16         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 9        | 13.16         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 13       | 13.16         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 15       | 13.16         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 1        | 13.16         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 1        | 13.16         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 8        | 13.16         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 13       | 13.16         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 13       | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 8        | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 8        | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 18       | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 18       | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 19       | 13.16         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 19       | 13.16         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 2        | 13.16         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1445) | 1:A:5:GLY:H     | 1:A:29:GLY:HA3  | 3        | 13.16         |
| (1,1355) | 1:A:4:ASN:HD22  | 1:A:22:GLN:H    | 11       | 13.16         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA2  | 16       | 13.16         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA3  | 16       | 13.16         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3  | 5        | 13.16         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3  | 10       | 13.16         |
| (1,1137) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HE   | 18       | 13.16         |
| (1,921)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:H    | 11       | 13.15         |
| (1,921)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:H    | 11       | 13.15         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG2  | 10       | 13.15         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG3  | 10       | 13.15         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG2  | 10       | 13.15         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG3  | 10       | 13.15         |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 2        | 13.15         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 15       | 13.15         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 15       | 13.15         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 15       | 13.15         |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1  | 20       | 13.15         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1  | 17       | 13.15         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2  | 17       | 13.15         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 4        | 13.15         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 4        | 13.15         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 14       | 13.15         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 14       | 13.15         |
| (1,3460) | 1:A:16:GLY:H    | 1:A:22:GLN:H    | 20       | 13.15         |
| (1,3445) | 1:A:15:ARG:HE   | 1:A:32:TYR:H    | 12       | 13.15         |
| (1,3412) | 1:A:15:ARG:HD2  | 1:A:31:LYS:H    | 4        | 13.15         |
| (1,3412) | 1:A:15:ARG:HD3  | 1:A:31:LYS:H    | 4        | 13.15         |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3  | 10       | 13.15         |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3  | 10       | 13.15         |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 2        | 13.15         |
| (1,3297) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HB2  | 8        | 13.15         |
| (1,3281) | 1:A:15:ARG:H    | 1:A:35:HIS:HD2  | 11       | 13.15         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 13.15         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 13.15         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE21 | 14       | 13.15         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE22 | 14       | 13.15         |
| (1,2729) | 1:A:11:TRP:HD1  | 1:A:16:GLY:H    | 8        | 13.15         |
| (1,2611) | 1:A:11:TRP:H    | 1:A:33:CYS:HA   | 1        | 13.15         |
| (1,2611) | 1:A:11:TRP:H    | 1:A:33:CYS:HA   | 12       | 13.15         |
| (1,2546) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HB2  | 18       | 13.15         |
| (1,2546) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HB3  | 18       | 13.15         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA   | 9        | 13.15         |
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA   | 19       | 13.15         |
| (1,1961) | 1:A:7:CYS:H     | 1:A:30:PRO:HB2  | 12       | 13.15         |
| (1,1961) | 1:A:7:CYS:H     | 1:A:30:PRO:HB3  | 12       | 13.15         |
| (1,1851) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HA   | 8        | 13.15         |
| (1,1851) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HA   | 16       | 13.15         |
| (1,1851) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HA   | 18       | 13.15         |
| (1,1839) | 1:A:6:GLN:HE21  | 1:A:28:SER:HB2  | 9        | 13.15         |
| (1,1839) | 1:A:6:GLN:HE21  | 1:A:28:SER:HB3  | 9        | 13.15         |
| (1,1733) | 1:A:6:GLN:HG2   | 1:A:33:CYS:HA   | 13       | 13.15         |
| (1,1670) | 1:A:6:GLN:HB3   | 1:A:29:GLY:HA2  | 20       | 13.15         |
| (1,1670) | 1:A:6:GLN:HB3   | 1:A:29:GLY:HA3  | 20       | 13.15         |
| (1,1633) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HE   | 5        | 13.15         |
| (1,1355) | 1:A:4:ASN:HD22  | 1:A:22:GLN:H    | 14       | 13.15         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3  | 2        | 13.15         |
| (1,1278) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HA   | 13       | 13.15         |
| (1,1240) | 1:A:4:ASN:HB3   | 1:A:33:CYS:HA   | 10       | 13.15         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG2  | 18       | 13.15         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG3  | 18       | 13.15         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE1  | 10       | 13.14         |
| (1,805)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HE2  | 10       | 13.14         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H    | 3        | 13.14         |
| (1,668)  | 1:A:2:GLY:H     | 1:A:33:CYS:HB2  | 4        | 13.14         |
| (1,668)  | 1:A:2:GLY:H     | 1:A:33:CYS:HB3  | 4        | 13.14         |
| (1,633)  | 1:A:2:GLY:H     | 1:A:22:GLN:HG2  | 4        | 13.14         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG2  | 9        | 13.14         |
| (1,581)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HG3  | 9        | 13.14         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG2  | 9        | 13.14         |
| (1,581)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HG3  | 9        | 13.14         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB2  | 14       | 13.14         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB2  | 14       | 13.14         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB3  | 14       | 13.14         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB3  | 14       | 13.14         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 11       | 13.14         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2  | 9        | 13.14         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3  | 9        | 13.14         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE1  | 17       | 13.14         |
| (1,3507) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HE2  | 17       | 13.14         |
| (1,3501) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HE21 | 14       | 13.14         |
| (1,3501) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HE22 | 14       | 13.14         |
| (1,3460) | 1:A:16:GLY:H    | 1:A:22:GLN:H    | 1        | 13.14         |
| (1,3460) | 1:A:16:GLY:H    | 1:A:22:GLN:H    | 15       | 13.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H    | 3        | 13.14         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H    | 3        | 13.14         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 16       | 13.14         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 16       | 13.14         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 17       | 13.14         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 8        | 13.14         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 1        | 13.14         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 15       | 13.14         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 15       | 13.14         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 14       | 13.14         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 14       | 13.14         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 1        | 13.14         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 1        | 13.14         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 20       | 13.14         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 20       | 13.14         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 14       | 13.14         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 11       | 13.14         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 13       | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 7        | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 7        | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 8        | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 8        | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 12       | 13.14         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 12       | 13.14         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 12       | 13.14         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 12       | 13.14         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 12       | 13.14         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 12       | 13.14         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 8        | 13.14         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 20       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 16       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 16       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 18       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 18       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 19       | 13.14         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 19       | 13.14         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 14       | 13.14         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 15       | 13.14         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 15       | 13.14         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 15       | 13.14         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 15       | 13.14         |
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD1  | 4        | 13.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2237) | 1:A:9:PRO:HB2  | 1:A:32:TYR:HD2 | 4        | 13.14         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1 | 15       | 13.14         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2 | 15       | 13.14         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 19       | 13.14         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2 | 15       | 13.14         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3 | 15       | 13.14         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H   | 15       | 13.14         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 16       | 13.14         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2 | 14       | 13.14         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3 | 14       | 13.14         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 8        | 13.14         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1 | 6        | 13.13         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2 | 6        | 13.13         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3 | 6        | 13.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1 | 6        | 13.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2 | 6        | 13.13         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3 | 6        | 13.13         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 8        | 13.13         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 9        | 13.13         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 20       | 13.13         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 20       | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 4        | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 4        | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 4        | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 13       | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 13       | 13.13         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 13       | 13.13         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 2        | 13.13         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 11       | 13.13         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 16       | 13.13         |
| (1,3595) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HG2 | 14       | 13.13         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2 | 20       | 13.13         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 20       | 13.13         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3 | 15       | 13.13         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 10       | 13.13         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 10       | 13.13         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 11       | 13.13         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 11       | 13.13         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 13       | 13.13         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 13       | 13.13         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 18       | 13.13         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 19       | 13.13         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 6        | 13.13         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 6        | 13.13         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 13       | 13.13         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 1        | 13.13         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 1        | 13.13         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 20       | 13.13         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 10       | 13.13         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 10       | 13.13         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 10       | 13.13         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 10       | 13.13         |
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2  | 8        | 13.13         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 4        | 13.13         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 4        | 13.13         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 3        | 13.13         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 3        | 13.13         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 3        | 13.13         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 3        | 13.13         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 20       | 13.13         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 18       | 13.13         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 18       | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 6        | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 6        | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 9        | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 9        | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1  | 14       | 13.13         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2  | 14       | 13.13         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 16       | 13.13         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA2  | 17       | 13.13         |
| (1,1881) | 1:A:6:GLN:HE22 | 1:A:17:GLY:HA3  | 17       | 13.13         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 1        | 13.13         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 1        | 13.13         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 16       | 13.13         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 16       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 18       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 18       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 18       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 20       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 20       | 13.13         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 20       | 13.13         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 11       | 13.13         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 10       | 13.13         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 10       | 13.13         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 3        | 13.13         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 18       | 13.13         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 9        | 13.12         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 9        | 13.12         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 12       | 13.12         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 12       | 13.12         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 18       | 13.12         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 18       | 13.12         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 19       | 13.12         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 19       | 13.12         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG2 | 16       | 13.12         |
| (1,581)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HG3 | 16       | 13.12         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG2 | 16       | 13.12         |
| (1,581)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HG3 | 16       | 13.12         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 6        | 13.12         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 10       | 13.12         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 13       | 13.12         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1 | 8        | 13.12         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2 | 8        | 13.12         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2 | 8        | 13.12         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 8        | 13.12         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1 | 2        | 13.12         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2 | 2        | 13.12         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 7        | 13.12         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 13       | 13.12         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA  | 8        | 13.12         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 8        | 13.12         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 4        | 13.12         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H   | 7        | 13.12         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 2        | 13.12         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 4        | 13.12         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 4        | 13.12         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2 | 15       | 13.12         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3 | 15       | 13.12         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 19       | 13.12         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H   | 9        | 13.12         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 17       | 13.12         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 8        | 13.12         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 15       | 13.12         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 5        | 13.12         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 5        | 13.12         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 13       | 13.12         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 13       | 13.12         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2 | 17       | 13.12         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3 | 17       | 13.12         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2 | 17       | 13.12         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3 | 17       | 13.12         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE  | 13       | 13.12         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE  | 13       | 13.12         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 19       | 13.12         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 20       | 13.12         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 20       | 13.12         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 20       | 13.12         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 5        | 13.12         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 4        | 13.12         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2 | 11       | 13.12         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3 | 11       | 13.12         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1 | 9        | 13.12         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3 | 9        | 13.12         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 9        | 13.12         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 9        | 13.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 5        | 13.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 5        | 13.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 6        | 13.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 6        | 13.12         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 17       | 13.12         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 5        | 13.12         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 5        | 13.12         |
| (1,1172) | 1:A:4:ASN:HB2  | 1:A:33:CYS:HA  | 20       | 13.12         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 12       | 13.11         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 12       | 13.11         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1 | 6        | 13.11         |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2 | 6        | 13.11         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA  | 1        | 13.11         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 18       | 13.11         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H   | 5        | 13.11         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 3        | 13.11         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 3        | 13.11         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 14       | 13.11         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 10       | 13.11         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H   | 10       | 13.11         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 6        | 13.11         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 6        | 13.11         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 6        | 13.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 6        | 13.11         |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2  | 12       | 13.11         |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2  | 14       | 13.11         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2  | 19       | 13.11         |
| (1,3733) | 1:A:18:LEU:HG  | 1:A:22:GLN:HE22 | 15       | 13.11         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE1  | 20       | 13.11         |
| (1,3628) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HE2  | 20       | 13.11         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 6        | 13.11         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 6        | 13.11         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 17       | 13.11         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 17       | 13.11         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 17       | 13.11         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 3        | 13.11         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 3        | 13.11         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 5        | 13.11         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 5        | 13.11         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 11       | 13.11         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 18       | 13.11         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 18       | 13.11         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 16       | 13.11         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 16       | 13.11         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 20       | 13.11         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 16       | 13.11         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 16       | 13.11         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 16       | 13.11         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 15       | 13.11         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 17       | 13.11         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 11       | 13.11         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 11       | 13.11         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 13       | 13.11         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 13       | 13.11         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 1        | 13.11         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 12       | 13.11         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 12       | 13.11         |
| (1,1789) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HE1  | 1        | 13.11         |
| (1,1787) | 1:A:6:GLN:HG3  | 1:A:35:HIS:H    | 20       | 13.11         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 19       | 13.11         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 19       | 13.11         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 19       | 13.11         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 6        | 13.11         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 17       | 13.11         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 19       | 13.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 15       | 13.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 3        | 13.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 3        | 13.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 3        | 13.11         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 13       | 13.11         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 13       | 13.11         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 14       | 13.11         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 14       | 13.11         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 11       | 13.1          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 11       | 13.1          |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 4        | 13.1          |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 4        | 13.1          |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 4        | 13.1          |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 4        | 13.1          |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 4        | 13.1          |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 4        | 13.1          |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 3        | 13.1          |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 4        | 13.1          |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 4        | 13.1          |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 4        | 13.1          |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 19       | 13.1          |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H    | 20       | 13.1          |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 7        | 13.1          |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 7        | 13.1          |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3  | 6        | 13.1          |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 10       | 13.1          |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 4        | 13.1          |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 4        | 13.1          |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 6        | 13.1          |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 6        | 13.1          |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 7        | 13.1          |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 20       | 13.1          |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 20       | 13.1          |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 3        | 13.1          |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 11       | 13.1          |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 15       | 13.1          |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 7        | 13.1          |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 7        | 13.1          |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 7        | 13.1          |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 11       | 13.1          |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 11       | 13.1          |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 2        | 13.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 6        | 13.1          |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA  | 12       | 13.1          |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA  | 12       | 13.1          |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 5        | 13.1          |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1 | 20       | 13.1          |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2 | 20       | 13.1          |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1 | 5        | 13.1          |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2 | 5        | 13.1          |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 16       | 13.1          |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2 | 11       | 13.1          |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA  | 5        | 13.1          |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 16       | 13.1          |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 16       | 13.1          |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 9        | 13.1          |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H   | 3        | 13.1          |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H   | 6        | 13.1          |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 4        | 13.1          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 3        | 13.1          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 3        | 13.1          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 3        | 13.1          |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 15       | 13.1          |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 15       | 13.1          |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2  | 6        | 13.1          |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3  | 6        | 13.1          |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 17       | 13.1          |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3 | 17       | 13.1          |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H   | 10       | 13.1          |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 2        | 13.1          |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 6        | 13.09         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 3        | 13.09         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 16       | 13.09         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 3        | 13.09         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 3        | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 10       | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 10       | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 10       | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1 | 15       | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2 | 15       | 13.09         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 15       | 13.09         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 7        | 13.09         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 7        | 13.09         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 7        | 13.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 7        | 13.09         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 7        | 13.09         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 7        | 13.09         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 11       | 13.09         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 11       | 13.09         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 17       | 13.09         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 17       | 13.09         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 6        | 13.09         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 6        | 13.09         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 7        | 13.09         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 18       | 13.09         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 18       | 13.09         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 13       | 13.09         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 10       | 13.09         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 7        | 13.09         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 7        | 13.09         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2  | 1        | 13.09         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 15       | 13.09         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 15       | 13.09         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 17       | 13.09         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 12       | 13.09         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 16       | 13.09         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 3        | 13.09         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 3        | 13.09         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 11       | 13.09         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 7        | 13.09         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 7        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 5        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 5        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 5        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 6        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 6        | 13.09         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 6        | 13.09         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 12       | 13.09         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 18       | 13.09         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 7        | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 8        | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 8        | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 13       | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 13       | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 15       | 13.09         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 15       | 13.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 19       | 13.09         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 8        | 13.09         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 15       | 13.09         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 10       | 13.09         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 2        | 13.09         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2  | 11       | 13.09         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3  | 11       | 13.09         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 17       | 13.09         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 17       | 13.09         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 14       | 13.09         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 9        | 13.09         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 2        | 13.09         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 2        | 13.09         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 5        | 13.09         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 5        | 13.09         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 10       | 13.09         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 10       | 13.09         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 7        | 13.09         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 9        | 13.09         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 8        | 13.09         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 8        | 13.09         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 1        | 13.09         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 4        | 13.08         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 20       | 13.08         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 11       | 13.08         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE2  | 18       | 13.08         |
| (1,661)  | 1:A:2:GLY:H    | 1:A:31:LYS:HE3  | 18       | 13.08         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 3        | 13.08         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 3        | 13.08         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3  | 16       | 13.08         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 3        | 13.08         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 11       | 13.08         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 2        | 13.08         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 2        | 13.08         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 2        | 13.08         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 2        | 13.08         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 2        | 13.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 11       | 13.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 11       | 13.08         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 11       | 13.08         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB2  | 13       | 13.08         |
| (1,2771) | 1:A:11:TRP:HD1 | 1:A:33:CYS:HB3  | 13       | 13.08         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2643) | 1:A:11:TRP:HB2 | 1:A:17:GLY:HA2 | 9        | 13.08         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2 | 9        | 13.08         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3 | 9        | 13.08         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H   | 18       | 13.08         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 7        | 13.08         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA2 | 17       | 13.08         |
| (1,1670) | 1:A:6:GLN:HB3  | 1:A:29:GLY:HA3 | 17       | 13.08         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 4        | 13.08         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3 | 12       | 13.08         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H   | 15       | 13.08         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3 | 9        | 13.08         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 4        | 13.08         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H   | 2        | 13.08         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H   | 6        | 13.08         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 15       | 13.08         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 17       | 13.07         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 17       | 13.07         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 12       | 13.07         |
| (1,795)  | 1:A:3:PRO:HB2  | 1:A:20:CYS:H   | 7        | 13.07         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 11       | 13.07         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3 | 10       | 13.07         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2 | 9        | 13.07         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 3        | 13.07         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA  | 3        | 13.07         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 6        | 13.07         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA  | 6        | 13.07         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 7        | 13.07         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2 | 3        | 13.07         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 3        | 13.07         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 4        | 13.07         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 10       | 13.07         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3 | 4        | 13.07         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 2        | 13.07         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 2        | 13.07         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 13.07         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3 | 1        | 13.07         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 10       | 13.07         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 12       | 13.07         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3 | 8        | 13.07         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 1        | 13.07         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 1        | 13.07         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 13       | 13.07         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 13       | 13.07         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2 | 15       | 13.07         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3 | 15       | 13.07         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 5        | 13.07         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 5        | 13.07         |
| (1,2674) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HE1 | 5        | 13.07         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 13       | 13.07         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 19       | 13.07         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2 | 13       | 13.07         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3 | 13       | 13.07         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2 | 19       | 13.07         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3 | 19       | 13.07         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA  | 13       | 13.07         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 2        | 13.07         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H   | 1        | 13.07         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H   | 11       | 13.07         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 8        | 13.07         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2 | 7        | 13.07         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3 | 7        | 13.07         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2 | 19       | 13.07         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2 | 7        | 13.07         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3 | 7        | 13.07         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2 | 8        | 13.07         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3 | 8        | 13.07         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H   | 16       | 13.07         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 12       | 13.07         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 17       | 13.07         |
| (1,1547) | 1:A:6:GLN:H    | 1:A:35:HIS:HD2 | 3        | 13.07         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3 | 13       | 13.07         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3 | 6        | 13.07         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2 | 12       | 13.07         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 1        | 13.07         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 1        | 13.07         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA   | 4        | 13.07         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3 | 20       | 13.07         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 7        | 13.07         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 7        | 13.07         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 7        | 13.07         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 7        | 13.07         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 18       | 13.07         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 19       | 13.07         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 12       | 13.07         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1083) | 1:A:4:ASN:H     | 1:A:22:GLN:HE21 | 11       | 13.07         |
| (1,1083) | 1:A:4:ASN:H     | 1:A:22:GLN:HE22 | 11       | 13.07         |
| (1,911)  | 1:A:3:PRO:HG2   | 1:A:17:GLY:H    | 11       | 13.06         |
| (1,911)  | 1:A:3:PRO:HG3   | 1:A:17:GLY:H    | 11       | 13.06         |
| (1,802)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HA   | 15       | 13.06         |
| (1,801)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:H    | 9        | 13.06         |
| (1,670)  | 1:A:2:GLY:H     | 1:A:34:ALA:HB1  | 12       | 13.06         |
| (1,670)  | 1:A:2:GLY:H     | 1:A:34:ALA:HB2  | 12       | 13.06         |
| (1,670)  | 1:A:2:GLY:H     | 1:A:34:ALA:HB3  | 12       | 13.06         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 4        | 13.06         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 4        | 13.06         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 13       | 13.06         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 12       | 13.06         |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 17       | 13.06         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 6        | 13.06         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 6        | 13.06         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 13.06         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 13.06         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG2  | 6        | 13.06         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG3  | 6        | 13.06         |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2  | 20       | 13.06         |
| (1,3356) | 1:A:15:ARG:HB3  | 1:A:35:HIS:HB3  | 19       | 13.06         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1  | 9        | 13.06         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2  | 9        | 13.06         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3  | 9        | 13.06         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE1  | 15       | 13.06         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE2  | 15       | 13.06         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 10       | 13.06         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 10       | 13.06         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 15       | 13.06         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 15       | 13.06         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2  | 12       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB2  | 11       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB3  | 11       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB2  | 18       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB3  | 18       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB2  | 19       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB3  | 19       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB2  | 20       | 13.06         |
| (1,2941) | 1:A:11:TRP:HZ2  | 1:A:19:CYS:HB3  | 20       | 13.06         |
| (1,2593) | 1:A:11:TRP:H    | 1:A:22:GLN:HB3  | 8        | 13.06         |
| (1,2593) | 1:A:11:TRP:H    | 1:A:22:GLN:HB3  | 18       | 13.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 9        | 13.06         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 9        | 13.06         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 11       | 13.06         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 11       | 13.06         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 6        | 13.06         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 6        | 13.06         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 2        | 13.06         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 2        | 13.06         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 6        | 13.06         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 20       | 13.06         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 20       | 13.06         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 7        | 13.06         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 14       | 13.06         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 18       | 13.06         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 20       | 13.06         |
| (1,1774) | 1:A:6:GLN:HG3  | 1:A:29:GLY:H    | 20       | 13.06         |
| (1,1751) | 1:A:6:GLN:HG3  | 1:A:16:GLY:HA2  | 14       | 13.06         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 1        | 13.06         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 11       | 13.06         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 14       | 13.06         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 1        | 13.06         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 8        | 13.06         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 2        | 13.06         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 2        | 13.06         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 2        | 13.06         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 2        | 13.06         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 9        | 13.06         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 13       | 13.06         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 4        | 13.05         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 9        | 13.05         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 9        | 13.05         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 8        | 13.05         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 8        | 13.05         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 8        | 13.05         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 8        | 13.05         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 18       | 13.05         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 3        | 13.05         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 3        | 13.05         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 3        | 13.05         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 3        | 13.05         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 3        | 13.05         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 3        | 13.05         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2  | 15       | 13.05         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 6        | 13.05         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 16       | 13.05         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 16       | 13.05         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H    | 4        | 13.05         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H    | 4        | 13.05         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 7        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 7        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 7        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 8        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 8        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 9        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 9        | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 12       | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 12       | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 16       | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 16       | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB2  | 17       | 13.05         |
| (1,2941) | 1:A:11:TRP:HZ2 | 1:A:19:CYS:HB3  | 17       | 13.05         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 9        | 13.05         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H    | 18       | 13.05         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 19       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 16       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 16       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 18       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 18       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 19       | 13.05         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 19       | 13.05         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 1        | 13.05         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 14       | 13.05         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 20       | 13.05         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 1        | 13.05         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 1        | 13.05         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 11       | 13.05         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 11       | 13.05         |
| (1,1960) | 1:A:7:CYS:H    | 1:A:29:GLY:HA2  | 16       | 13.05         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 17       | 13.05         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 1        | 13.05         |
| (1,1459) | 1:A:5:GLY:HA2  | 1:A:22:GLN:HE22 | 19       | 13.05         |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 2        | 13.05         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA2  | 15       | 13.05         |
| (1,1268) | 1:A:4:ASN:HD21 | 1:A:17:GLY:HA3  | 15       | 13.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 15       | 13.05         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H   | 1        | 13.05         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 10       | 13.05         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 3        | 13.04         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 3        | 13.04         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 1        | 13.04         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 1        | 13.04         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 8        | 13.04         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 8        | 13.04         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 5        | 13.04         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 1        | 13.04         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 1        | 13.04         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 16       | 13.04         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 19       | 13.04         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 11       | 13.04         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 11       | 13.04         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 11       | 13.04         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 11       | 13.04         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2 | 13       | 13.04         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2 | 13       | 13.04         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3 | 13       | 13.04         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3 | 13       | 13.04         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 8        | 13.04         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1 | 8        | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 18       | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 18       | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 19       | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 19       | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE1 | 20       | 13.04         |
| (1,3604) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HE2 | 20       | 13.04         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2 | 7        | 13.04         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3 | 7        | 13.04         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2 | 14       | 13.04         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 17       | 13.04         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 17       | 13.04         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1 | 13       | 13.04         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2 | 13       | 13.04         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H   | 16       | 13.04         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 2        | 13.04         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 2        | 13.04         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1 | 6        | 13.04         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2 | 6        | 13.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1 | 6        | 13.04         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2 | 6        | 13.04         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 16       | 13.04         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 19       | 13.04         |
| (1,2911) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:H   | 20       | 13.04         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1 | 4        | 13.04         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2 | 4        | 13.04         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA  | 14       | 13.04         |
| (1,2351) | 1:A:9:PRO:HG2  | 1:A:33:CYS:HA  | 17       | 13.04         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA  | 4        | 13.04         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H   | 13       | 13.04         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 3        | 13.04         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 3        | 13.04         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 3        | 13.04         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2 | 9        | 13.04         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3 | 9        | 13.04         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA  | 11       | 13.04         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 3        | 13.04         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 6        | 13.04         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 14       | 13.04         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1 | 16       | 13.04         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2 | 16       | 13.04         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3 | 16       | 13.04         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3 | 2        | 13.04         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3 | 15       | 13.04         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H   | 20       | 13.04         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 3        | 13.04         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 10       | 13.04         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H   | 6        | 13.04         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H   | 14       | 13.03         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 13       | 13.03         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 13       | 13.03         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 15       | 13.03         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 15       | 13.03         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA  | 16       | 13.03         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA  | 18       | 13.03         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2 | 10       | 13.03         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3 | 10       | 13.03         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 15       | 13.03         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 15       | 13.03         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 2        | 13.03         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 2        | 13.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 2        | 13.03         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 2        | 13.03         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 16       | 13.03         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 5        | 13.03         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 20       | 13.03         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 1        | 13.03         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 1        | 13.03         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 1        | 13.03         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 1        | 13.03         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 1        | 13.03         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 5        | 13.03         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 6        | 13.03         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 17       | 13.03         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 17       | 13.03         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 13       | 13.03         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 13       | 13.03         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 20       | 13.03         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 13       | 13.03         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 19       | 13.03         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 1        | 13.03         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 11       | 13.03         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 8        | 13.03         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 8        | 13.03         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 9        | 13.03         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 9        | 13.03         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 4        | 13.03         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 14       | 13.03         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 20       | 13.03         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 5        | 13.03         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 14       | 13.03         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 2        | 13.03         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 5        | 13.03         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 15       | 13.03         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 15       | 13.03         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 3        | 13.02         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 13       | 13.02         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 13       | 13.02         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 2        | 13.02         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 2        | 13.02         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 2        | 13.02         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 14       | 13.02         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 14       | 13.02         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3 | 14       | 13.02         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 8        | 13.02         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 8        | 13.02         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 8        | 13.02         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 8        | 13.02         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 13       | 13.02         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 13       | 13.02         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 13       | 13.02         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 13       | 13.02         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 6        | 13.02         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 7        | 13.02         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 9        | 13.02         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 18       | 13.02         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 18       | 13.02         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 19       | 13.02         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 19       | 13.02         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1 | 7        | 13.02         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2 | 7        | 13.02         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 17       | 13.02         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 17       | 13.02         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA  | 5        | 13.02         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 5        | 13.02         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA  | 3        | 13.02         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3 | 6        | 13.02         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2 | 15       | 13.02         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3 | 17       | 13.02         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2 | 3        | 13.02         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3 | 6        | 13.02         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 16       | 13.02         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG  | 8        | 13.02         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA2 | 17       | 13.02         |
| (1,2786) | 1:A:11:TRP:HE3 | 1:A:17:GLY:HA3 | 17       | 13.02         |
| (1,2755) | 1:A:11:TRP:HD1 | 1:A:28:SER:H   | 17       | 13.02         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 9        | 13.02         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 1        | 13.02         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 7        | 13.02         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2 | 10       | 13.02         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3 | 10       | 13.02         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1 | 20       | 13.02         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2 | 20       | 13.02         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 11       | 13.02         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 2        | 13.02         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1811) | 1:A:6:GLN:HE21  | 1:A:16:GLY:HA2  | 19       | 13.02         |
| (1,1811) | 1:A:6:GLN:HE21  | 1:A:16:GLY:HA3  | 19       | 13.02         |
| (1,1733) | 1:A:6:GLN:HG2   | 1:A:33:CYS:HA   | 16       | 13.02         |
| (1,1733) | 1:A:6:GLN:HG2   | 1:A:33:CYS:HA   | 18       | 13.02         |
| (1,1733) | 1:A:6:GLN:HG2   | 1:A:33:CYS:HA   | 19       | 13.02         |
| (1,1716) | 1:A:6:GLN:HG2   | 1:A:22:GLN:HE22 | 3        | 13.02         |
| (1,1690) | 1:A:6:GLN:HB3   | 1:A:35:HIS:H    | 19       | 13.02         |
| (1,1679) | 1:A:6:GLN:HB3   | 1:A:32:TYR:H    | 8        | 13.02         |
| (1,1633) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HE   | 9        | 13.02         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB1  | 7        | 13.02         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB2  | 7        | 13.02         |
| (1,1545) | 1:A:6:GLN:H     | 1:A:34:ALA:HB3  | 7        | 13.02         |
| (1,1428) | 1:A:5:GLY:H     | 1:A:22:GLN:HG2  | 5        | 13.02         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA2  | 7        | 13.02         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA3  | 7        | 13.02         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA2  | 19       | 13.02         |
| (1,1341) | 1:A:4:ASN:HD22  | 1:A:16:GLY:HA3  | 19       | 13.02         |
| (1,1323) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HA    | 14       | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB1  | 4        | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB2  | 4        | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB3  | 4        | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB1  | 15       | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB2  | 15       | 13.02         |
| (1,1175) | 1:A:4:ASN:HB2   | 1:A:34:ALA:HB3  | 15       | 13.02         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H    | 17       | 13.01         |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE   | 7        | 13.01         |
| (1,624)  | 1:A:2:GLY:H     | 1:A:17:GLY:HA2  | 15       | 13.01         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 19       | 13.01         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1  | 15       | 13.01         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2  | 15       | 13.01         |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 19       | 13.01         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 8        | 13.01         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 8        | 13.01         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 15       | 13.01         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 15       | 13.01         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2  | 20       | 13.01         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2  | 1        | 13.01         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3  | 1        | 13.01         |
| (1,3436) | 1:A:15:ARG:HE   | 1:A:29:GLY:HA3  | 15       | 13.01         |
| (1,3429) | 1:A:15:ARG:HE   | 1:A:22:GLN:HA   | 7        | 13.01         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2  | 12       | 13.01         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3  | 12       | 13.01         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 12       | 13.01         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 12       | 13.01         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3 | 3        | 13.01         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1 | 11       | 13.01         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2 | 11       | 13.01         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 20       | 13.01         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 7        | 13.01         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA  | 20       | 13.01         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 9        | 13.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 5        | 13.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 5        | 13.01         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 20       | 13.01         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H   | 3        | 13.01         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1 | 15       | 13.01         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2 | 15       | 13.01         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1 | 20       | 13.01         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2 | 20       | 13.01         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 9        | 13.01         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 7        | 13.01         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 7        | 13.01         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2 | 18       | 13.01         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3 | 18       | 13.01         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA  | 9        | 13.01         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H   | 9        | 13.01         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2 | 18       | 13.01         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3 | 18       | 13.01         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 5        | 13.01         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H   | 12       | 13.01         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H   | 5        | 13.01         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H   | 15       | 13.01         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H   | 8        | 13.01         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 8        | 13.0          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 8        | 13.0          |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 5        | 13.0          |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H   | 17       | 13.0          |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA  | 13       | 13.0          |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 13       | 13.0          |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 13       | 13.0          |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 7        | 13.0          |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2 | 20       | 13.0          |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3 | 2        | 13.0          |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1 | 13       | 13.0          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 8        | 13.0          |
| (1,3760) | 1:A:18:LEU:HG   | 1:A:35:HIS:HD2  | 18       | 13.0          |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 9        | 13.0          |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 9        | 13.0          |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1  | 16       | 13.0          |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2  | 16       | 13.0          |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2  | 15       | 13.0          |
| (1,3500) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HG3  | 1        | 13.0          |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2  | 4        | 13.0          |
| (1,3414) | 1:A:15:ARG:HD2  | 1:A:31:LYS:HG3  | 1        | 13.0          |
| (1,3414) | 1:A:15:ARG:HD3  | 1:A:31:LYS:HG3  | 1        | 13.0          |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3  | 17       | 13.0          |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3  | 17       | 13.0          |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB2  | 12       | 13.0          |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB3  | 12       | 13.0          |
| (1,2911) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:H    | 7        | 13.0          |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA   | 3        | 13.0          |
| (1,2529) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HB2  | 17       | 13.0          |
| (1,2529) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HB3  | 17       | 13.0          |
| (1,2412) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HE1  | 7        | 13.0          |
| (1,2412) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HE2  | 7        | 13.0          |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1  | 7        | 13.0          |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2  | 7        | 13.0          |
| (1,2163) | 1:A:9:PRO:HA    | 1:A:22:GLN:HE21 | 20       | 13.0          |
| (1,2163) | 1:A:9:PRO:HA    | 1:A:22:GLN:HE22 | 20       | 13.0          |
| (1,1893) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HG2  | 6        | 13.0          |
| (1,1690) | 1:A:6:GLN:HB3   | 1:A:35:HIS:H    | 9        | 13.0          |
| (1,1690) | 1:A:6:GLN:HB3   | 1:A:35:HIS:H    | 11       | 13.0          |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H    | 4        | 13.0          |
| (1,1679) | 1:A:6:GLN:HB3   | 1:A:32:TYR:H    | 13       | 13.0          |
| (1,1634) | 1:A:6:GLN:HB3   | 1:A:16:GLY:H    | 17       | 13.0          |
| (1,1445) | 1:A:5:GLY:H     | 1:A:29:GLY:HA3  | 8        | 13.0          |
| (1,1347) | 1:A:4:ASN:HD22  | 1:A:19:CYS:H    | 17       | 13.0          |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2  | 4        | 13.0          |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3  | 4        | 13.0          |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H    | 13       | 13.0          |
| (1,1202) | 1:A:4:ASN:HB3   | 1:A:17:GLY:H    | 13       | 13.0          |
| (1,871)  | 1:A:3:PRO:HB3   | 1:A:28:SER:H    | 2        | 12.99         |
| (1,802)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HA   | 19       | 12.99         |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1  | 18       | 12.99         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 4        | 12.99         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 4        | 12.99         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1  | 4        | 12.99         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 17       | 12.99         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 4        | 12.99         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 4        | 12.99         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 20       | 12.99         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 20       | 12.99         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 20       | 12.99         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 20       | 12.99         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 1        | 12.99         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 1        | 12.99         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 2        | 12.99         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 8        | 12.99         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 8        | 12.99         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 15       | 12.99         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 15       | 12.99         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 16       | 12.99         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 16       | 12.99         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 12       | 12.99         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 12       | 12.99         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 19       | 12.99         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 19       | 12.99         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 6        | 12.99         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 1        | 12.99         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 5        | 12.99         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 18       | 12.99         |
| (1,2611) | 1:A:11:TRP:H   | 1:A:33:CYS:HA   | 19       | 12.99         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 18       | 12.99         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 18       | 12.99         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 16       | 12.99         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 16       | 12.99         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 9        | 12.99         |
| (1,1733) | 1:A:6:GLN:HG2  | 1:A:33:CYS:HA   | 7        | 12.99         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 5        | 12.99         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 2        | 12.99         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 7        | 12.99         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 4        | 12.99         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 3        | 12.99         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 3        | 12.99         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 10       | 12.99         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 20       | 12.99         |
| (1,1350) | 1:A:4:ASN:HD22 | 1:A:20:CYS:H    | 20       | 12.99         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 6        | 12.99         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1273) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HA  | 6        | 12.99         |
| (1,1234) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HG3 | 16       | 12.99         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H   | 1        | 12.99         |
| (1,969)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:HB2 | 10       | 12.98         |
| (1,969)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:HB3 | 10       | 12.98         |
| (1,921)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:H   | 20       | 12.98         |
| (1,921)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:H   | 20       | 12.98         |
| (1,802)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HA  | 7        | 12.98         |
| (1,801)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:H   | 8        | 12.98         |
| (1,793)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:HA  | 12       | 12.98         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H   | 10       | 12.98         |
| (1,4364) | 1:A:23:TYR:HA   | 1:A:30:PRO:HB2 | 5        | 12.98         |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 4        | 12.98         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 7        | 12.98         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 7        | 12.98         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 7        | 12.98         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1 | 7        | 12.98         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2 | 7        | 12.98         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE1 | 12       | 12.98         |
| (1,3604) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HE2 | 12       | 12.98         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1 | 16       | 12.98         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2 | 16       | 12.98         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3 | 16       | 12.98         |
| (1,3470) | 1:A:16:GLY:H    | 1:A:25:TYR:HE1 | 9        | 12.98         |
| (1,3470) | 1:A:16:GLY:H    | 1:A:25:TYR:HE2 | 9        | 12.98         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB2 | 20       | 12.98         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB3 | 20       | 12.98         |
| (1,3412) | 1:A:15:ARG:HD2  | 1:A:31:LYS:H   | 20       | 12.98         |
| (1,3412) | 1:A:15:ARG:HD3  | 1:A:31:LYS:H   | 20       | 12.98         |
| (1,3366) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HA  | 7        | 12.98         |
| (1,3366) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HA  | 7        | 12.98         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1 | 16       | 12.98         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2 | 16       | 12.98         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE1 | 19       | 12.98         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE2 | 19       | 12.98         |
| (1,3044) | 1:A:12:GLY:HA2  | 1:A:28:SER:H   | 17       | 12.98         |
| (1,2771) | 1:A:11:TRP:HD1  | 1:A:33:CYS:HB2 | 17       | 12.98         |
| (1,2771) | 1:A:11:TRP:HD1  | 1:A:33:CYS:HB3 | 17       | 12.98         |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA  | 4        | 12.98         |
| (1,2716) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HA  | 3        | 12.98         |
| (1,2611) | 1:A:11:TRP:H    | 1:A:33:CYS:HA  | 16       | 12.98         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE1 | 12       | 12.98         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE2 | 12       | 12.98         |
| (1,2149) | 1:A:9:PRO:HA    | 1:A:15:ARG:HE  | 17       | 12.98         |
| (1,1693) | 1:A:6:GLN:HB3   | 1:A:35:HIS:HD2 | 11       | 12.98         |
| (1,1679) | 1:A:6:GLN:HB3   | 1:A:32:TYR:H   | 1        | 12.98         |
| (1,1679) | 1:A:6:GLN:HB3   | 1:A:32:TYR:H   | 15       | 12.98         |
| (1,1359) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HG3 | 16       | 12.98         |
| (1,1355) | 1:A:4:ASN:HD22  | 1:A:22:GLN:H   | 5        | 12.98         |
| (1,1351) | 1:A:4:ASN:HD22  | 1:A:20:CYS:HB3 | 15       | 12.98         |
| (1,1335) | 1:A:4:ASN:HD22  | 1:A:14:CYS:H   | 13       | 12.98         |
| (1,1239) | 1:A:4:ASN:HB3   | 1:A:33:CYS:H   | 11       | 12.98         |
| (1,1202) | 1:A:4:ASN:HB3   | 1:A:17:GLY:H   | 1        | 12.98         |
| (1,981)  | 1:A:3:PRO:HD2   | 1:A:28:SER:H   | 6        | 12.97         |
| (1,921)  | 1:A:3:PRO:HG2   | 1:A:22:GLN:H   | 16       | 12.97         |
| (1,921)  | 1:A:3:PRO:HG3   | 1:A:22:GLN:H   | 16       | 12.97         |
| (1,871)  | 1:A:3:PRO:HB3   | 1:A:28:SER:H   | 9        | 12.97         |
| (1,624)  | 1:A:2:GLY:H     | 1:A:17:GLY:HA2 | 12       | 12.97         |
| (1,4601) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HA  | 12       | 12.97         |
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA  | 12       | 12.97         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 12       | 12.97         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1 | 4        | 12.97         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2 | 4        | 12.97         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG2 | 9        | 12.97         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG3 | 9        | 12.97         |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2 | 18       | 12.97         |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2 | 19       | 12.97         |
| (1,3445) | 1:A:15:ARG:HE   | 1:A:32:TYR:H   | 16       | 12.97         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1 | 13       | 12.97         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2 | 13       | 12.97         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB2 | 17       | 12.97         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB3 | 17       | 12.97         |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA  | 6        | 12.97         |
| (1,2495) | 1:A:10:GLY:HA2  | 1:A:21:SER:HG  | 7        | 12.97         |
| (1,2495) | 1:A:10:GLY:HA2  | 1:A:21:SER:HG  | 18       | 12.97         |
| (1,2495) | 1:A:10:GLY:HA2  | 1:A:21:SER:HG  | 19       | 12.97         |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD2 | 4        | 12.97         |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD3 | 4        | 12.97         |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD2 | 4        | 12.97         |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD3 | 4        | 12.97         |
| (1,2414) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HA  | 8        | 12.97         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE1 | 13       | 12.97         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE2 | 13       | 12.97         |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H   | 2        | 12.97         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 6        | 12.97         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 11       | 12.97         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 1        | 12.97         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 2        | 12.97         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 10       | 12.97         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 1        | 12.97         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 5        | 12.97         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 1        | 12.96         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 1        | 12.96         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 14       | 12.96         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 14       | 12.96         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 11       | 12.96         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 9        | 12.96         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 9        | 12.96         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 4        | 12.96         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 4        | 12.96         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 17       | 12.96         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 17       | 12.96         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 1        | 12.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 11       | 12.96         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 11       | 12.96         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 14       | 12.96         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1  | 20       | 12.96         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2  | 20       | 12.96         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 14       | 12.96         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 20       | 12.96         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 15       | 12.96         |
| (1,3084) | 1:A:12:GLY:HA3 | 1:A:35:HIS:HD2  | 13       | 12.96         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 11       | 12.96         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 8        | 12.96         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 8        | 12.96         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 2        | 12.96         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 12       | 12.96         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 20       | 12.96         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 1        | 12.96         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 1        | 12.96         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 20       | 12.96         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 11       | 12.96         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 8        | 12.96         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 8        | 12.96         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 4        | 12.96         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 6        | 12.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 16       | 12.96         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 3        | 12.96         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 3        | 12.96         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 11       | 12.96         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 18       | 12.95         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 18       | 12.95         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 1        | 12.95         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 15       | 12.95         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 15       | 12.95         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 12       | 12.95         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 12       | 12.95         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 13       | 12.95         |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1  | 5        | 12.95         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 11       | 12.95         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 11       | 12.95         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 4        | 12.95         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 4        | 12.95         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 1        | 12.95         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 1        | 12.95         |
| (1,3460) | 1:A:16:GLY:H   | 1:A:22:GLN:H    | 17       | 12.95         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 20       | 12.95         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 10       | 12.95         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 10       | 12.95         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 14       | 12.95         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 18       | 12.95         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 19       | 12.95         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 2        | 12.95         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 2        | 12.95         |
| (1,3058) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HG2  | 17       | 12.95         |
| (1,2722) | 1:A:11:TRP:HB3 | 1:A:35:HIS:HE1  | 1        | 12.95         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 16       | 12.95         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 16       | 12.95         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 8        | 12.95         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 9        | 12.95         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 16       | 12.95         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 9        | 12.95         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 9        | 12.95         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 15       | 12.95         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 15       | 12.95         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 10       | 12.95         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 5        | 12.95         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 11       | 12.95         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 16       | 12.95         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 16       | 12.95         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 20       | 12.95         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 20       | 12.95         |
| (1,1851) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HA   | 2        | 12.95         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 17       | 12.95         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 15       | 12.95         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 1        | 12.95         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 13       | 12.95         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 3        | 12.95         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 16       | 12.95         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 16       | 12.95         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 6        | 12.95         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 2        | 12.95         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 1        | 12.95         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB2  | 1        | 12.95         |
| (1,1113) | 1:A:4:ASN:H    | 1:A:35:HIS:HB3  | 1        | 12.95         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 6        | 12.94         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 6        | 12.94         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 11       | 12.94         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 11       | 12.94         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ1  | 18       | 12.94         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ2  | 18       | 12.94         |
| (1,662)  | 1:A:2:GLY:H    | 1:A:31:LYS:HZ3  | 18       | 12.94         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 6        | 12.94         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 6        | 12.94         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 6        | 12.94         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 6        | 12.94         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 15       | 12.94         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 15       | 12.94         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 15       | 12.94         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 15       | 12.94         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 15       | 12.94         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE1  | 14       | 12.94         |
| (1,3507) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HE2  | 14       | 12.94         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 16       | 12.94         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 9        | 12.94         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 6        | 12.94         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 14       | 12.94         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 14       | 12.94         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 18       | 12.94         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 18       | 12.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 19       | 12.94         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 19       | 12.94         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 16       | 12.94         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 3        | 12.94         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 6        | 12.94         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 5        | 12.94         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 6        | 12.94         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 6        | 12.94         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 8        | 12.94         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 8        | 12.94         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 2        | 12.94         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 5        | 12.94         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 11       | 12.94         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 18       | 12.94         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 18       | 12.94         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB2  | 19       | 12.94         |
| (1,1961) | 1:A:7:CYS:H    | 1:A:30:PRO:HB3  | 19       | 12.94         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 16       | 12.94         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 16       | 12.94         |
| (1,1690) | 1:A:6:GLN:HB3  | 1:A:35:HIS:H    | 20       | 12.94         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 1        | 12.94         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 1        | 12.94         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 1        | 12.94         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 13       | 12.94         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 10       | 12.94         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 12       | 12.94         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 2        | 12.94         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 2        | 12.94         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 17       | 12.94         |
| (1,1266) | 1:A:4:ASN:HD21 | 1:A:16:GLY:HA3  | 9        | 12.94         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 13       | 12.94         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 10       | 12.94         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 14       | 12.94         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 14       | 12.94         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 7        | 12.93         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 7        | 12.93         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 19       | 12.93         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 19       | 12.93         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 2        | 12.93         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 14       | 12.93         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 9        | 12.93         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 8        | 12.93         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,670)  | 1:A:2:GLY:H     | 1:A:34:ALA:HB2  | 8        | 12.93         |
| (1,670)  | 1:A:2:GLY:H     | 1:A:34:ALA:HB3  | 8        | 12.93         |
| (1,633)  | 1:A:2:GLY:H     | 1:A:22:GLN:HG2  | 6        | 12.93         |
| (1,633)  | 1:A:2:GLY:H     | 1:A:22:GLN:HG2  | 18       | 12.93         |
| (1,624)  | 1:A:2:GLY:H     | 1:A:17:GLY:HA2  | 8        | 12.93         |
| (1,4364) | 1:A:23:TYR:HA   | 1:A:30:PRO:HB2  | 14       | 12.93         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 4        | 12.93         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 7        | 12.93         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 12       | 12.93         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 18       | 12.93         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 2        | 12.93         |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE21 | 10       | 12.93         |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE22 | 10       | 12.93         |
| (1,3597) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG3  | 17       | 12.93         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG2  | 18       | 12.93         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG3  | 18       | 12.93         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB2  | 1        | 12.93         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB3  | 1        | 12.93         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB2  | 16       | 12.93         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB3  | 16       | 12.93         |
| (1,3437) | 1:A:15:ARG:HE   | 1:A:30:PRO:HB2  | 9        | 12.93         |
| (1,3437) | 1:A:15:ARG:HE   | 1:A:30:PRO:HB3  | 9        | 12.93         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H    | 16       | 12.93         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H    | 16       | 12.93         |
| (1,3263) | 1:A:15:ARG:H    | 1:A:22:GLN:HE21 | 7        | 12.93         |
| (1,3263) | 1:A:15:ARG:H    | 1:A:22:GLN:HE22 | 7        | 12.93         |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2  | 20       | 12.93         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE21 | 12       | 12.93         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE22 | 12       | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB2  | 9        | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB3  | 9        | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB2  | 16       | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB3  | 16       | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB2  | 20       | 12.93         |
| (1,2912) | 1:A:11:TRP:HZ3  | 1:A:19:CYS:HB3  | 20       | 12.93         |
| (1,2787) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HA   | 4        | 12.93         |
| (1,2667) | 1:A:11:TRP:HB2  | 1:A:31:LYS:HZ1  | 8        | 12.93         |
| (1,2667) | 1:A:11:TRP:HB2  | 1:A:31:LYS:HZ2  | 8        | 12.93         |
| (1,2667) | 1:A:11:TRP:HB2  | 1:A:31:LYS:HZ3  | 8        | 12.93         |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD2  | 16       | 12.93         |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD3  | 16       | 12.93         |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD2  | 16       | 12.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 16       | 12.93         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 1        | 12.93         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 12       | 12.93         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 11       | 12.93         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 11       | 12.93         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 10       | 12.93         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 10       | 12.93         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 19       | 12.93         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 8        | 12.93         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 8        | 12.93         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 9        | 12.93         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 18       | 12.93         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 19       | 12.93         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 18       | 12.93         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 18       | 12.93         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 19       | 12.93         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 19       | 12.93         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 4        | 12.93         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 18       | 12.93         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 19       | 12.93         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 9        | 12.93         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 3        | 12.93         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 3        | 12.93         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 18       | 12.93         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 20       | 12.93         |
| (1,1351) | 1:A:4:ASN:HD22 | 1:A:20:CYS:HB3  | 4        | 12.93         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 17       | 12.93         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 17       | 12.93         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 5        | 12.93         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 5        | 12.93         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 2        | 12.93         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 20       | 12.93         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 20       | 12.93         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 6        | 12.93         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 2        | 12.93         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 2        | 12.92         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 8        | 12.92         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 4        | 12.92         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 14       | 12.92         |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1  | 8        | 12.92         |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1  | 8        | 12.92         |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1  | 8        | 12.92         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 16       | 12.92         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 18       | 12.92         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 19       | 12.92         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 20       | 12.92         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 2        | 12.92         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 15       | 12.92         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 15       | 12.92         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 7        | 12.92         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 7        | 12.92         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 13       | 12.92         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 13       | 12.92         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 13       | 12.92         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 13       | 12.92         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 18       | 12.92         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 19       | 12.92         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2  | 18       | 12.92         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 18       | 12.92         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 5        | 12.92         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 9        | 12.92         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 9        | 12.92         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB2  | 7        | 12.92         |
| (1,2912) | 1:A:11:TRP:HZ3 | 1:A:19:CYS:HB3  | 7        | 12.92         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 10       | 12.92         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 10       | 12.92         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 20       | 12.92         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 20       | 12.92         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 15       | 12.92         |
| (1,2482) | 1:A:10:GLY:H   | 1:A:32:TYR:HB3  | 17       | 12.92         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 5        | 12.92         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 5        | 12.92         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 11       | 12.92         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 15       | 12.92         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 1        | 12.92         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 1        | 12.92         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 2        | 12.92         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 6        | 12.92         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB2  | 20       | 12.92         |
| (1,1839) | 1:A:6:GLN:HE21 | 1:A:28:SER:HB3  | 20       | 12.92         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 12       | 12.92         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 17       | 12.92         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 20       | 12.92         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 4        | 12.92         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2 | 5        | 12.92         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 16       | 12.92         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 16       | 12.92         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H   | 18       | 12.92         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2 | 4        | 12.92         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3 | 4        | 12.92         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2 | 10       | 12.92         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3 | 10       | 12.92         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2 | 12       | 12.92         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3 | 12       | 12.92         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 17       | 12.92         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 17       | 12.92         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA  | 20       | 12.92         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3 | 10       | 12.92         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H   | 9        | 12.91         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 4        | 12.91         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 4        | 12.91         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 12       | 12.91         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 15       | 12.91         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA  | 18       | 12.91         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA  | 19       | 12.91         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2 | 5        | 12.91         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3 | 5        | 12.91         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2 | 5        | 12.91         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3 | 5        | 12.91         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2 | 14       | 12.91         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3 | 14       | 12.91         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2 | 14       | 12.91         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3 | 14       | 12.91         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H   | 14       | 12.91         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 9        | 12.91         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 12       | 12.91         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1 | 13       | 12.91         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2 | 13       | 12.91         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 8        | 12.91         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 8        | 12.91         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2 | 11       | 12.91         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3 | 11       | 12.91         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 2        | 12.91         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 2        | 12.91         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2 | 7        | 12.91         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3 | 7        | 12.91         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 18       | 12.91         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 13       | 12.91         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 13       | 12.91         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 11       | 12.91         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 11       | 12.91         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 13       | 12.91         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 13       | 12.91         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 5        | 12.91         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 5        | 12.91         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 8        | 12.91         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 6        | 12.91         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 11       | 12.91         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 15       | 12.91         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 15       | 12.91         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 14       | 12.91         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 13       | 12.91         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 13       | 12.91         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 5        | 12.91         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 8        | 12.91         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 8        | 12.91         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE2  | 18       | 12.91         |
| (1,1912) | 1:A:6:GLN:HE22 | 1:A:31:LYS:HE3  | 18       | 12.91         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 17       | 12.91         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 14       | 12.91         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 3        | 12.91         |
| (1,1679) | 1:A:6:GLN:HB3  | 1:A:32:TYR:H    | 16       | 12.91         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 19       | 12.91         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 6        | 12.91         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 6        | 12.91         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 15       | 12.91         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 15       | 12.91         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 3        | 12.91         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 3        | 12.91         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 10       | 12.91         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 19       | 12.91         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 19       | 12.91         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 3        | 12.91         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 12       | 12.91         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 11       | 12.91         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 11       | 12.91         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 18       | 12.9          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 18       | 12.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 19       | 12.9          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 19       | 12.9          |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 3        | 12.9          |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 3        | 12.9          |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE1  | 15       | 12.9          |
| (1,805)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HE2  | 15       | 12.9          |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 20       | 12.9          |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 20       | 12.9          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 8        | 12.9          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 8        | 12.9          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 8        | 12.9          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 8        | 12.9          |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 9        | 12.9          |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 9        | 12.9          |
| (1,3625) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HG3  | 1        | 12.9          |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 4        | 12.9          |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 4        | 12.9          |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 12       | 12.9          |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 5        | 12.9          |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 5        | 12.9          |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 18       | 12.9          |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 18       | 12.9          |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 8        | 12.9          |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 8        | 12.9          |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 8        | 12.9          |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 8        | 12.9          |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 3        | 12.9          |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 3        | 12.9          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 17       | 12.9          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 17       | 12.9          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 17       | 12.9          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 17       | 12.9          |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 19       | 12.9          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 17       | 12.9          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 17       | 12.9          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 17       | 12.9          |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 5        | 12.9          |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 17       | 12.9          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 4        | 12.9          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 4        | 12.9          |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 18       | 12.9          |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 19       | 12.9          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 16       | 12.9          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2 | 2        | 12.9          |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3 | 2        | 12.9          |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA  | 7        | 12.9          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 16       | 12.9          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 16       | 12.9          |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 2        | 12.9          |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 8        | 12.9          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 3        | 12.9          |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2 | 7        | 12.9          |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2 | 6        | 12.9          |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3 | 6        | 12.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2 | 20       | 12.9          |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3 | 20       | 12.9          |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H   | 2        | 12.9          |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 8        | 12.9          |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 8        | 12.9          |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 18       | 12.9          |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 18       | 12.9          |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H   | 13       | 12.89         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 20       | 12.89         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 20       | 12.89         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 1        | 12.89         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 13       | 12.89         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H   | 3        | 12.89         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 14       | 12.89         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 14       | 12.89         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 8        | 12.89         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 11       | 12.89         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 11       | 12.89         |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3 | 7        | 12.89         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1 | 5        | 12.89         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2 | 5        | 12.89         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 11       | 12.89         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 11       | 12.89         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1 | 20       | 12.89         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2 | 20       | 12.89         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 14       | 12.89         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 14       | 12.89         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2 | 19       | 12.89         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3 | 19       | 12.89         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA  | 19       | 12.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 18       | 12.89         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 18       | 12.89         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 13       | 12.89         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 13       | 12.89         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 17       | 12.89         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 17       | 12.89         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 3        | 12.89         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 14       | 12.89         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 10       | 12.89         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 1        | 12.89         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG   | 4        | 12.89         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 20       | 12.89         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 20       | 12.89         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 2        | 12.89         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 2        | 12.89         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 2        | 12.89         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 2        | 12.89         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 12       | 12.89         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 12       | 12.89         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 4        | 12.89         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 2        | 12.89         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 3        | 12.89         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 4        | 12.89         |
| (1,2273) | 1:A:9:PRO:HB3  | 1:A:27:GLY:H    | 17       | 12.89         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 16       | 12.89         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 6        | 12.89         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 12       | 12.89         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 12       | 12.89         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 16       | 12.89         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 3        | 12.89         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 2        | 12.89         |
| (1,1445) | 1:A:5:GLY:H    | 1:A:29:GLY:HA3  | 16       | 12.89         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 2        | 12.89         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H    | 7        | 12.89         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 14       | 12.89         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 14       | 12.89         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 2        | 12.89         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 6        | 12.89         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 20       | 12.89         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 11       | 12.89         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 5        | 12.88         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 7        | 12.88         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 7        | 12.88         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 11       | 12.88         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 13       | 12.88         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 9        | 12.88         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 14       | 12.88         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA  | 16       | 12.88         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H   | 13       | 12.88         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2 | 14       | 12.88         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 16       | 12.88         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 16       | 12.88         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 16       | 12.88         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 16       | 12.88         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 16       | 12.88         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 16       | 12.88         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1 | 11       | 12.88         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1 | 1        | 12.88         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2 | 1        | 12.88         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2 | 10       | 12.88         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3 | 10       | 12.88         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 10       | 12.88         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 10       | 12.88         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2 | 8        | 12.88         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3 | 8        | 12.88         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3 | 5        | 12.88         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H   | 4        | 12.88         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 2        | 12.88         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H   | 15       | 12.88         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 4        | 12.88         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 4        | 12.88         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 4        | 12.88         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 1        | 12.88         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 6        | 12.88         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 10       | 12.88         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 11       | 12.88         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2 | 6        | 12.88         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3 | 6        | 12.88         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA  | 3        | 12.88         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2 | 6        | 12.88         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 6        | 12.88         |
| (1,1355) | 1:A:4:ASN:HD22 | 1:A:22:GLN:H   | 19       | 12.88         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 12       | 12.88         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 12       | 12.88         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H   | 15       | 12.88         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H   | 15       | 12.87         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H   | 15       | 12.87         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 1        | 12.87         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H   | 10       | 12.87         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 8        | 12.87         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 12       | 12.87         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 10       | 12.87         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 16       | 12.87         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H   | 18       | 12.87         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 15       | 12.87         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H   | 15       | 12.87         |
| (1,522)  | 1:A:1:SER:HA   | 1:A:22:GLN:HB3 | 5        | 12.87         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 18       | 12.87         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 1        | 12.87         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1 | 4        | 12.87         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1 | 11       | 12.87         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2 | 11       | 12.87         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1 | 5        | 12.87         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2 | 5        | 12.87         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 1        | 12.87         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 1        | 12.87         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1 | 9        | 12.87         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2 | 9        | 12.87         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2 | 9        | 12.87         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3 | 9        | 12.87         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 12       | 12.87         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 12       | 12.87         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1 | 7        | 12.87         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H   | 2        | 12.87         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H   | 5        | 12.87         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 5        | 12.87         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 10       | 12.87         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 14       | 12.87         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 14       | 12.87         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 14       | 12.87         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3 | 10       | 12.87         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 2        | 12.87         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 3        | 12.87         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 5        | 12.87         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 13       | 12.87         |
| (1,2487) | 1:A:10:GLY:H   | 1:A:35:HIS:HD2 | 1        | 12.87         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 10       | 12.87         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 10       | 12.87         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB2  | 4        | 12.87         |
| (1,2415) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HB3  | 4        | 12.87         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 9        | 12.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 1        | 12.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 1        | 12.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 11       | 12.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 11       | 12.87         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 15       | 12.87         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 8        | 12.87         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 8        | 12.87         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 16       | 12.87         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 20       | 12.87         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 20       | 12.87         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 13       | 12.87         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 17       | 12.87         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 12       | 12.87         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 12       | 12.87         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 2        | 12.87         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 2        | 12.87         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 5        | 12.87         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 5        | 12.87         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 7        | 12.87         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 7        | 12.87         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 5        | 12.87         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 1        | 12.87         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 1        | 12.87         |
| (1,1139) | 1:A:4:ASN:HB2  | 1:A:17:GLY:H    | 14       | 12.87         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 17       | 12.87         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 11       | 12.86         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 12       | 12.86         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 6        | 12.86         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 6        | 12.86         |
| (1,793)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:HA   | 7        | 12.86         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 2        | 12.86         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 2        | 12.86         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 5        | 12.86         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 5        | 12.86         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 10       | 12.86         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 10       | 12.86         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 20       | 12.86         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB2  | 20       | 12.86         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB3  | 20       | 12.86         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB3  | 20       | 12.86         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE21 | 9        | 12.86         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE22 | 9        | 12.86         |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1  | 6        | 12.86         |
| (1,4364) | 1:A:23:TYR:HA   | 1:A:30:PRO:HB2  | 15       | 12.86         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 9        | 12.86         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 9        | 12.86         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 19       | 12.86         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 19       | 12.86         |
| (1,3726) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HE1  | 15       | 12.86         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1  | 18       | 12.86         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1  | 2        | 12.86         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2  | 2        | 12.86         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD1  | 16       | 12.86         |
| (1,3562) | 1:A:17:GLY:H    | 1:A:23:TYR:HD2  | 16       | 12.86         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 15       | 12.86         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 15       | 12.86         |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE21 | 2        | 12.86         |
| (1,3530) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HE22 | 2        | 12.86         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB2  | 12       | 12.86         |
| (1,3464) | 1:A:16:GLY:H    | 1:A:23:TYR:HB3  | 12       | 12.86         |
| (1,3274) | 1:A:15:ARG:H    | 1:A:31:LYS:HG3  | 7        | 12.86         |
| (1,3082) | 1:A:12:GLY:HA3  | 1:A:33:CYS:HB3  | 12       | 12.86         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 14       | 12.86         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H    | 10       | 12.86         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H    | 14       | 12.86         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2  | 6        | 12.86         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3  | 6        | 12.86         |
| (1,2839) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HA   | 14       | 12.86         |
| (1,2694) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HG3  | 19       | 12.86         |
| (1,2611) | 1:A:11:TRP:H    | 1:A:33:CYS:HA   | 17       | 12.86         |
| (1,2593) | 1:A:11:TRP:H    | 1:A:22:GLN:HB3  | 4        | 12.86         |
| (1,2415) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HB2  | 3        | 12.86         |
| (1,2415) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HB3  | 3        | 12.86         |
| (1,2414) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HA   | 20       | 12.86         |
| (1,2373) | 1:A:9:PRO:HG3   | 1:A:15:ARG:HA   | 1        | 12.86         |
| (1,1964) | 1:A:7:CYS:H     | 1:A:31:LYS:HB2  | 4        | 12.86         |
| (1,1964) | 1:A:7:CYS:H     | 1:A:31:LYS:HB2  | 18       | 12.86         |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H    | 8        | 12.86         |
| (1,1635) | 1:A:6:GLN:HB3   | 1:A:16:GLY:HA2  | 1        | 12.86         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2 | 10       | 12.86         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 5        | 12.86         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 5        | 12.86         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 12       | 12.86         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 13       | 12.86         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 13       | 12.86         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 17       | 12.86         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 17       | 12.86         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 20       | 12.86         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 13       | 12.86         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 13       | 12.86         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 5        | 12.85         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 5        | 12.85         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H   | 10       | 12.85         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H   | 10       | 12.85         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 15       | 12.85         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 7        | 12.85         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 7        | 12.85         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 7        | 12.85         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 7        | 12.85         |
| (1,523)  | 1:A:1:SER:HA   | 1:A:22:GLN:HG3 | 5        | 12.85         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2 | 17       | 12.85         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1 | 10       | 12.85         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2 | 10       | 12.85         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2 | 7        | 12.85         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3 | 7        | 12.85         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1 | 12       | 12.85         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2 | 12       | 12.85         |
| (1,3414) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HG3 | 9        | 12.85         |
| (1,3414) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HG3 | 9        | 12.85         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3 | 14       | 12.85         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 18       | 12.85         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 18       | 12.85         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2 | 14       | 12.85         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 2        | 12.85         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 2        | 12.85         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 2        | 12.85         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA  | 5        | 12.85         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3 | 11       | 12.85         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 17       | 12.85         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2 | 18       | 12.85         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3 | 18       | 12.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 18       | 12.85         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 18       | 12.85         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 13       | 12.85         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 8        | 12.85         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 8        | 12.85         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 18       | 12.85         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 10       | 12.85         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 2        | 12.85         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 10       | 12.85         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 10       | 12.85         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 11       | 12.85         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 16       | 12.85         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 16       | 12.85         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 19       | 12.85         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 19       | 12.85         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 12       | 12.85         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 1        | 12.84         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 15       | 12.84         |
| (1,921)  | 1:A:3:PRO:HG2  | 1:A:22:GLN:H    | 2        | 12.84         |
| (1,921)  | 1:A:3:PRO:HG3  | 1:A:22:GLN:H    | 2        | 12.84         |
| (1,911)  | 1:A:3:PRO:HG2  | 1:A:17:GLY:H    | 14       | 12.84         |
| (1,911)  | 1:A:3:PRO:HG3  | 1:A:17:GLY:H    | 14       | 12.84         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 13       | 12.84         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 17       | 12.84         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 17       | 12.84         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 19       | 12.84         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 2        | 12.84         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 2        | 12.84         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 13       | 12.84         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 4        | 12.84         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 13       | 12.84         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 13       | 12.84         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 3        | 12.84         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 3        | 12.84         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 3        | 12.84         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 8        | 12.84         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 2        | 12.84         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 4        | 12.84         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 4        | 12.84         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 4        | 12.84         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 11       | 12.84         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 11       | 12.84         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 12       | 12.84         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 12       | 12.84         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 16       | 12.84         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 7        | 12.84         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 9        | 12.84         |
| (1,2910) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HG   | 20       | 12.84         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 4        | 12.84         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 4        | 12.84         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 8        | 12.84         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 12       | 12.84         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 4        | 12.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ1  | 18       | 12.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ2  | 18       | 12.84         |
| (1,2667) | 1:A:11:TRP:HB2 | 1:A:31:LYS:HZ3  | 18       | 12.84         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 2        | 12.84         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 15       | 12.84         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 16       | 12.84         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 18       | 12.84         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA   | 5        | 12.84         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 3        | 12.84         |
| (1,2318) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HB2  | 4        | 12.84         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 20       | 12.84         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 20       | 12.84         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 7        | 12.84         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 13       | 12.84         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 12       | 12.84         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 6        | 12.84         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 7        | 12.84         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 15       | 12.84         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 11       | 12.84         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 6        | 12.84         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 6        | 12.84         |
| (1,1357) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HG2  | 10       | 12.84         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 11       | 12.84         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 11       | 12.84         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 9        | 12.84         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 9        | 12.84         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 17       | 12.84         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 11       | 12.84         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 8        | 12.83         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 15       | 12.83         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 17       | 12.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 7        | 12.83         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB1  | 2        | 12.83         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB2  | 2        | 12.83         |
| (1,670)  | 1:A:2:GLY:H    | 1:A:34:ALA:HB3  | 2        | 12.83         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 9        | 12.83         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 1        | 12.83         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 1        | 12.83         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 1        | 12.83         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 1        | 12.83         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 3        | 12.83         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 15       | 12.83         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 15       | 12.83         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 18       | 12.83         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 18       | 12.83         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 12       | 12.83         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 18       | 12.83         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 7        | 12.83         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 7        | 12.83         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 8        | 12.83         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 8        | 12.83         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 3        | 12.83         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 3        | 12.83         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 13       | 12.83         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 16       | 12.83         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 10       | 12.83         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 10       | 12.83         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 10       | 12.83         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 20       | 12.83         |
| (1,2556) | 1:A:10:GLY:HA3 | 1:A:27:GLY:H    | 17       | 12.83         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 19       | 12.83         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 13       | 12.83         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 13       | 12.83         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 5        | 12.83         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 5        | 12.83         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 4        | 12.83         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 16       | 12.83         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 16       | 12.83         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 16       | 12.83         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 17       | 12.83         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 18       | 12.83         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 18       | 12.83         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 18       | 12.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 18       | 12.83         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 20       | 12.83         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 12       | 12.83         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 13       | 12.83         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 8        | 12.83         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 11       | 12.83         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 20       | 12.82         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 13       | 12.82         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 17       | 12.82         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 6        | 12.82         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 6        | 12.82         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 16       | 12.82         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 9        | 12.82         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 15       | 12.82         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 15       | 12.82         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 15       | 12.82         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 15       | 12.82         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 12       | 12.82         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 12       | 12.82         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 12       | 12.82         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 12       | 12.82         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 17       | 12.82         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 16       | 12.82         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 11       | 12.82         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 13       | 12.82         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 3        | 12.82         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 3        | 12.82         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 15       | 12.82         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 15       | 12.82         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 10       | 12.82         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 10       | 12.82         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 19       | 12.82         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 19       | 12.82         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 10       | 12.82         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 3        | 12.82         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 14       | 12.82         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 14       | 12.82         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 2        | 12.82         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 2        | 12.82         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 20       | 12.82         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 1        | 12.82         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 1        | 12.82         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 1        | 12.82         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 1        | 12.82         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 1        | 12.82         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE1  | 17       | 12.82         |
| (1,2472) | 1:A:10:GLY:H   | 1:A:23:TYR:HE2  | 17       | 12.82         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 10       | 12.82         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 10       | 12.82         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 10       | 12.82         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 10       | 12.82         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 14       | 12.82         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 14       | 12.82         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 14       | 12.82         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 7        | 12.82         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 13       | 12.82         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 13       | 12.82         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 13       | 12.82         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 8        | 12.82         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 8        | 12.82         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 1        | 12.82         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 10       | 12.81         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 6        | 12.81         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 2        | 12.81         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 2        | 12.81         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 20       | 12.81         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 20       | 12.81         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 3        | 12.81         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 11       | 12.81         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 18       | 12.81         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 8        | 12.81         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 8        | 12.81         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 13       | 12.81         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 13       | 12.81         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 12       | 12.81         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 12       | 12.81         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 2        | 12.81         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 18       | 12.81         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 18       | 12.81         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2  | 11       | 12.81         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3  | 11       | 12.81         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 20       | 12.81         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 3        | 12.81         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 3        | 12.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 2        | 12.81         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 2        | 12.81         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 16       | 12.81         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 16       | 12.81         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 16       | 12.81         |
| (1,3042) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HE22 | 19       | 12.81         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 18       | 12.81         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 18       | 12.81         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 19       | 12.81         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 19       | 12.81         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 20       | 12.81         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 18       | 12.81         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 19       | 12.81         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 5        | 12.81         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 12       | 12.81         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 12       | 12.81         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 9        | 12.81         |
| (1,2227) | 1:A:9:PRO:HB2  | 1:A:27:GLY:H    | 17       | 12.81         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 18       | 12.81         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 1        | 12.81         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 4        | 12.81         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 8        | 12.81         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 8        | 12.81         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 5        | 12.81         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 1        | 12.81         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 9        | 12.81         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 12       | 12.81         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 13       | 12.81         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 3        | 12.81         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 5        | 12.81         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 19       | 12.81         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 19       | 12.81         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 13       | 12.81         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 9        | 12.81         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 19       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 15       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 15       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 15       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 19       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 19       | 12.81         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 19       | 12.81         |
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD2  | 8        | 12.81         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1105) | 1:A:4:ASN:H    | 1:A:31:LYS:HD3  | 8        | 12.81         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 3        | 12.81         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 1        | 12.81         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 9        | 12.81         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 17       | 12.8          |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 17       | 12.8          |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 18       | 12.8          |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 3        | 12.8          |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 1        | 12.8          |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 1        | 12.8          |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 1        | 12.8          |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 1        | 12.8          |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 11       | 12.8          |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 11       | 12.8          |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 9        | 12.8          |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 10       | 12.8          |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 2        | 12.8          |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 4        | 12.8          |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 15       | 12.8          |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 15       | 12.8          |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 15       | 12.8          |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 15       | 12.8          |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 14       | 12.8          |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 14       | 12.8          |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 9        | 12.8          |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 9        | 12.8          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 7        | 12.8          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 7        | 12.8          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 7        | 12.8          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 3        | 12.8          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 3        | 12.8          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 16       | 12.8          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 16       | 12.8          |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 4        | 12.8          |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 6        | 12.8          |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 17       | 12.8          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 16       | 12.8          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 16       | 12.8          |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 15       | 12.8          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 18       | 12.8          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 18       | 12.8          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 2        | 12.8          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2456) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HD2 | 2        | 12.8          |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD2 | 14       | 12.8          |
| (1,2450) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HD3 | 14       | 12.8          |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD2 | 14       | 12.8          |
| (1,2450) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HD3 | 14       | 12.8          |
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA  | 3        | 12.8          |
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA  | 6        | 12.8          |
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 20       | 12.8          |
| (1,2267) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HB3 | 9        | 12.8          |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1 | 2        | 12.8          |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2 | 2        | 12.8          |
| (1,1892) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HA  | 17       | 12.8          |
| (1,1814) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HA  | 5        | 12.8          |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG2 | 18       | 12.8          |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG3 | 18       | 12.8          |
| (1,1202) | 1:A:4:ASN:HB3   | 1:A:17:GLY:H   | 14       | 12.8          |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3 | 4        | 12.8          |
| (1,969)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:HB2 | 4        | 12.79         |
| (1,969)  | 1:A:3:PRO:HD2   | 1:A:22:GLN:HB3 | 4        | 12.79         |
| (1,861)  | 1:A:3:PRO:HB3   | 1:A:23:TYR:HD1 | 9        | 12.79         |
| (1,861)  | 1:A:3:PRO:HB3   | 1:A:23:TYR:HD2 | 9        | 12.79         |
| (1,802)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HA  | 6        | 12.79         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H   | 15       | 12.79         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB2 | 5        | 12.79         |
| (1,692)  | 1:A:2:GLY:HA2   | 1:A:22:GLN:HB3 | 5        | 12.79         |
| (1,4667) | 1:A:26:CYS:HB2  | 1:A:35:HIS:HE1 | 20       | 12.79         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 12       | 12.79         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 8        | 12.79         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 8        | 12.79         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3 | 7        | 12.79         |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 4        | 12.79         |
| (1,3726) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HE1 | 16       | 12.79         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1 | 20       | 12.79         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2 | 20       | 12.79         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1 | 3        | 12.79         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2 | 3        | 12.79         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1 | 18       | 12.79         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2 | 18       | 12.79         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3 | 18       | 12.79         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3 | 18       | 12.79         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2 | 16       | 12.79         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3 | 16       | 12.79         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 16       | 12.79         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2 | 16       | 12.79         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB2 | 14       | 12.79         |
| (1,3464) | 1:A:16:GLY:H   | 1:A:23:TYR:HB3 | 14       | 12.79         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 1        | 12.79         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 1        | 12.79         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 1        | 12.79         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 1        | 12.79         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1 | 16       | 12.79         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2 | 16       | 12.79         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1 | 16       | 12.79         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2 | 16       | 12.79         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1 | 6        | 12.79         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2 | 6        | 12.79         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 2        | 12.79         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 5        | 12.79         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 10       | 12.79         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 13       | 12.79         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 13       | 12.79         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3 | 16       | 12.79         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1 | 12       | 12.79         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2 | 12       | 12.79         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3 | 12       | 12.79         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA  | 5        | 12.79         |
| (1,2373) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HA  | 6        | 12.79         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1 | 14       | 12.79         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2 | 14       | 12.79         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3 | 8        | 12.79         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 18       | 12.79         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 18       | 12.79         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 6        | 12.79         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 6        | 12.79         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 6        | 12.79         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2 | 3        | 12.79         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3 | 3        | 12.79         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 9        | 12.79         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 17       | 12.79         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 2        | 12.79         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 10       | 12.79         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H   | 11       | 12.79         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2 | 2        | 12.79         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3 | 2        | 12.79         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 9        | 12.79         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 13       | 12.79         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 13       | 12.79         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 9        | 12.79         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 9        | 12.79         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 16       | 12.79         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 19       | 12.79         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 12       | 12.79         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 18       | 12.79         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 7        | 12.79         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 7        | 12.79         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 11       | 12.79         |
| (1,1202) | 1:A:4:ASN:HB3  | 1:A:17:GLY:H    | 15       | 12.79         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 1        | 12.79         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 17       | 12.79         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 4        | 12.79         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 4        | 12.79         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 16       | 12.78         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 18       | 12.78         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 5        | 12.78         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 3        | 12.78         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 11       | 12.78         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 11       | 12.78         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 17       | 12.78         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB2  | 14       | 12.78         |
| (1,692)  | 1:A:2:GLY:HA2  | 1:A:22:GLN:HB3  | 14       | 12.78         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 8        | 12.78         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 8        | 12.78         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 19       | 12.78         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 19       | 12.78         |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 2        | 12.78         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2  | 11       | 12.78         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2  | 11       | 12.78         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 15       | 12.78         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 10       | 12.78         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 10       | 12.78         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 10       | 12.78         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 10       | 12.78         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 12       | 12.78         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 12       | 12.78         |
| (1,4364) | 1:A:23:TYR:HA  | 1:A:30:PRO:HB2  | 2        | 12.78         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 18       | 12.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 18       | 12.78         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 19       | 12.78         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 19       | 12.78         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE21 | 16       | 12.78         |
| (1,3626) | 1:A:17:GLY:HA3 | 1:A:22:GLN:HE22 | 16       | 12.78         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 17       | 12.78         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 17       | 12.78         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 17       | 12.78         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 17       | 12.78         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 18       | 12.78         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 13       | 12.78         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 13       | 12.78         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 18       | 12.78         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 18       | 12.78         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 16       | 12.78         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 2        | 12.78         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 2        | 12.78         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 2        | 12.78         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 16       | 12.78         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 16       | 12.78         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 1        | 12.78         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 7        | 12.78         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 9        | 12.78         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 11       | 12.78         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 4        | 12.78         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 17       | 12.78         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 6        | 12.78         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 2        | 12.78         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 2        | 12.78         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 16       | 12.78         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 16       | 12.78         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 9        | 12.78         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 10       | 12.78         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 8        | 12.78         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 8        | 12.78         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 19       | 12.78         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 16       | 12.78         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 19       | 12.78         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 7        | 12.78         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 8        | 12.78         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 15       | 12.78         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 7        | 12.78         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 7        | 12.78         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 7        | 12.78         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 8        | 12.78         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 18       | 12.78         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H   | 8        | 12.78         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2  | 12       | 12.78         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3  | 12       | 12.78         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 17       | 12.78         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H   | 13       | 12.78         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H   | 15       | 12.78         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H   | 8        | 12.77         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 19       | 12.77         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA  | 4        | 12.77         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H   | 1        | 12.77         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2 | 12       | 12.77         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3 | 12       | 12.77         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 5        | 12.77         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 5        | 12.77         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 5        | 12.77         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 5        | 12.77         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 12       | 12.77         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1 | 10       | 12.77         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2 | 10       | 12.77         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H   | 3        | 12.77         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H   | 9        | 12.77         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 5        | 12.77         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 5        | 12.77         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1 | 20       | 12.77         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2 | 20       | 12.77         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 19       | 12.77         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 4        | 12.77         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1 | 12       | 12.77         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2 | 12       | 12.77         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H   | 2        | 12.77         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H   | 3        | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1 | 9        | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2 | 9        | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1 | 10       | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2 | 10       | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1 | 15       | 12.77         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2 | 15       | 12.77         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 1        | 12.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 15       | 12.77         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 15       | 12.77         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 13       | 12.77         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 13       | 12.77         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 13       | 12.77         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 3        | 12.77         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 4        | 12.77         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 4        | 12.77         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 20       | 12.77         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 6        | 12.77         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 6        | 12.77         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 18       | 12.77         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 18       | 12.77         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD21 | 17       | 12.77         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD22 | 17       | 12.77         |
| (1,2258) | 1:A:9:PRO:HB3  | 1:A:18:LEU:HD23 | 17       | 12.77         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 19       | 12.77         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 19       | 12.77         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA2  | 9        | 12.77         |
| (1,1811) | 1:A:6:GLN:HE21 | 1:A:16:GLY:HA3  | 9        | 12.77         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 4        | 12.77         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 7        | 12.77         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 10       | 12.77         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 15       | 12.77         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 15       | 12.77         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 10       | 12.77         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 10       | 12.77         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 13       | 12.77         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 13       | 12.77         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 3        | 12.77         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 3        | 12.77         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 4        | 12.77         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA2  | 8        | 12.77         |
| (1,1341) | 1:A:4:ASN:HD22 | 1:A:16:GLY:HA3  | 8        | 12.77         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 16       | 12.77         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 16       | 12.77         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 6        | 12.77         |
| (1,1229) | 1:A:4:ASN:HB3  | 1:A:29:GLY:H    | 8        | 12.77         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 7        | 12.77         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 7        | 12.77         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 8        | 12.77         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 10       | 12.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 10       | 12.76         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 7        | 12.76         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 15       | 12.76         |
| (1,802)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HA   | 10       | 12.76         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 5        | 12.76         |
| (1,801)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:H    | 6        | 12.76         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 9        | 12.76         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 12       | 12.76         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 7        | 12.76         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 7        | 12.76         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 18       | 12.76         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 18       | 12.76         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 12       | 12.76         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 12       | 12.76         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 12       | 12.76         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 12       | 12.76         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 12       | 12.76         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 8        | 12.76         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 4        | 12.76         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 15       | 12.76         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 5        | 12.76         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 5        | 12.76         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 8        | 12.76         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 8        | 12.76         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 6        | 12.76         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 10       | 12.76         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 10       | 12.76         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 4        | 12.76         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 17       | 12.76         |
| (1,3445) | 1:A:15:ARG:HE  | 1:A:32:TYR:H    | 7        | 12.76         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 15       | 12.76         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 15       | 12.76         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 15       | 12.76         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 15       | 12.76         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 3        | 12.76         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 9        | 12.76         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 20       | 12.76         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 20       | 12.76         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 9        | 12.76         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 4        | 12.76         |
| (1,3041) | 1:A:12:GLY:HA2 | 1:A:22:GLN:HG3  | 5        | 12.76         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 1        | 12.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 1        | 12.76         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 6        | 12.76         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 6        | 12.76         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 12       | 12.76         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 12       | 12.76         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 16       | 12.76         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 11       | 12.76         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 13       | 12.76         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 5        | 12.76         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 5        | 12.76         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 13       | 12.76         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 13       | 12.76         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 19       | 12.76         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 19       | 12.76         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 20       | 12.76         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 20       | 12.76         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 18       | 12.76         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 3        | 12.76         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 3        | 12.76         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 18       | 12.76         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 4        | 12.76         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 6        | 12.76         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 8        | 12.76         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 14       | 12.76         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 4        | 12.76         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 4        | 12.76         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 4        | 12.76         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 6        | 12.76         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 6        | 12.76         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 3        | 12.76         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 19       | 12.76         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 19       | 12.76         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 19       | 12.76         |
| (1,1616) | 1:A:6:GLN:HB2  | 1:A:35:HIS:HB2  | 1        | 12.76         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 2        | 12.76         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 12       | 12.76         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 12       | 12.76         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 3        | 12.76         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 7        | 12.76         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 6        | 12.76         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 17       | 12.76         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 17       | 12.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 19       | 12.76         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 19       | 12.76         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 7        | 12.75         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 7        | 12.75         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 12       | 12.75         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 12       | 12.75         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 1        | 12.75         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 1        | 12.75         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 8        | 12.75         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 10       | 12.75         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 16       | 12.75         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 20       | 12.75         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 20       | 12.75         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 14       | 12.75         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 14       | 12.75         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 14       | 12.75         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 12       | 12.75         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 12       | 12.75         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 12       | 12.75         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 9        | 12.75         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 10       | 12.75         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 2        | 12.75         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 2        | 12.75         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 17       | 12.75         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 17       | 12.75         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 1        | 12.75         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 13       | 12.75         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB1  | 15       | 12.75         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB2  | 15       | 12.75         |
| (1,2720) | 1:A:11:TRP:HB3 | 1:A:34:ALA:HB3  | 15       | 12.75         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 3        | 12.75         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 14       | 12.75         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 19       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 16       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 16       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 18       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 18       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 19       | 12.75         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 19       | 12.75         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 13       | 12.75         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD1  | 17       | 12.75         |
| (1,2282) | 1:A:9:PRO:HB3  | 1:A:32:TYR:HD2  | 17       | 12.75         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 16       | 12.75         |
| (1,2267) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HB3 | 3        | 12.75         |
| (1,2267) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HB3 | 20       | 12.75         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1 | 3        | 12.75         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2 | 3        | 12.75         |
| (1,2161) | 1:A:9:PRO:HA    | 1:A:22:GLN:HB3 | 4        | 12.75         |
| (1,1900) | 1:A:6:GLN:HE22  | 1:A:28:SER:H   | 17       | 12.75         |
| (1,1750) | 1:A:6:GLN:HG3   | 1:A:16:GLY:H   | 16       | 12.75         |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H   | 18       | 12.75         |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H   | 19       | 12.75         |
| (1,1684) | 1:A:6:GLN:HB3   | 1:A:33:CYS:H   | 20       | 12.75         |
| (1,1428) | 1:A:5:GLY:H     | 1:A:22:GLN:HG2 | 9        | 12.75         |
| (1,1368) | 1:A:4:ASN:HD22  | 1:A:28:SER:H   | 4        | 12.75         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 5        | 12.75         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 7        | 12.75         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 11       | 12.75         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA   | 5        | 12.75         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA   | 10       | 12.75         |
| (1,1239) | 1:A:4:ASN:HB3   | 1:A:33:CYS:H   | 7        | 12.75         |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H   | 7        | 12.75         |
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA  | 17       | 12.75         |
| (1,1161) | 1:A:4:ASN:HB2   | 1:A:28:SER:HB3 | 17       | 12.75         |
| (1,1081) | 1:A:4:ASN:H     | 1:A:22:GLN:HB2 | 20       | 12.75         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 6        | 12.74         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 6        | 12.74         |
| (1,801)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:H   | 4        | 12.74         |
| (1,801)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:H   | 10       | 12.74         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H   | 13       | 12.74         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H   | 15       | 12.74         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD2 | 15       | 12.74         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD3 | 15       | 12.74         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD2 | 15       | 12.74         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD3 | 15       | 12.74         |
| (1,4364) | 1:A:23:TYR:HA   | 1:A:30:PRO:HB2 | 4        | 12.74         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 19       | 12.74         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 19       | 12.74         |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 8        | 12.74         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1 | 16       | 12.74         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2 | 16       | 12.74         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1 | 19       | 12.74         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2 | 19       | 12.74         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2 | 7        | 12.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 7        | 12.74         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 20       | 12.74         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE1  | 14       | 12.74         |
| (1,3470) | 1:A:16:GLY:H   | 1:A:25:TYR:HE2  | 14       | 12.74         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE1  | 20       | 12.74         |
| (1,3369) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HE2  | 20       | 12.74         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE1  | 20       | 12.74         |
| (1,3369) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HE2  | 20       | 12.74         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 7        | 12.74         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE21 | 2        | 12.74         |
| (1,3061) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HE22 | 2        | 12.74         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 5        | 12.74         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 5        | 12.74         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 13       | 12.74         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 6        | 12.74         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 4        | 12.74         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 12       | 12.74         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 12       | 12.74         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB2  | 17       | 12.74         |
| (1,2498) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HB3  | 17       | 12.74         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 9        | 12.74         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 19       | 12.74         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 11       | 12.74         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 14       | 12.74         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 14       | 12.74         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 2        | 12.74         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 2        | 12.74         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1  | 5        | 12.74         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2  | 5        | 12.74         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 12       | 12.74         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 12       | 12.74         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 2        | 12.74         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 8        | 12.74         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 18       | 12.74         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 19       | 12.74         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 20       | 12.74         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 9        | 12.74         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 16       | 12.74         |
| (1,1684) | 1:A:6:GLN:HB3  | 1:A:33:CYS:H    | 16       | 12.74         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 1        | 12.74         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 11       | 12.74         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 11       | 12.74         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3 | 1        | 12.74         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 2        | 12.74         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 10       | 12.74         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H   | 16       | 12.74         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB2  | 13       | 12.74         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB3  | 13       | 12.74         |
| (1,1273) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HA  | 11       | 12.74         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA   | 2        | 12.74         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG2 | 5        | 12.74         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG3 | 5        | 12.74         |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3 | 3        | 12.74         |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG2 | 3        | 12.74         |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3 | 3        | 12.74         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 4        | 12.73         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 4        | 12.73         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2 | 17       | 12.73         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H   | 2        | 12.73         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H   | 11       | 12.73         |
| (1,668)  | 1:A:2:GLY:H     | 1:A:33:CYS:HB2 | 16       | 12.73         |
| (1,668)  | 1:A:2:GLY:H     | 1:A:33:CYS:HB3 | 16       | 12.73         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB2 | 17       | 12.73         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB2 | 17       | 12.73         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB3 | 17       | 12.73         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB3 | 17       | 12.73         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB2 | 18       | 12.73         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB2 | 18       | 12.73         |
| (1,580)  | 1:A:1:SER:HB2   | 1:A:30:PRO:HB3 | 18       | 12.73         |
| (1,580)  | 1:A:1:SER:HB3   | 1:A:30:PRO:HB3 | 18       | 12.73         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1 | 16       | 12.73         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1 | 16       | 12.73         |
| (1,4555) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HD2 | 9        | 12.73         |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 2        | 12.73         |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 4        | 12.73         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 7        | 12.73         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 7        | 12.73         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1 | 9        | 12.73         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2 | 9        | 12.73         |
| (1,3564) | 1:A:17:GLY:H    | 1:A:24:GLY:H   | 5        | 12.73         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2 | 9        | 12.73         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3 | 9        | 12.73         |
| (1,3401) | 1:A:15:ARG:HD2  | 1:A:22:GLN:HA  | 11       | 12.73         |
| (1,3401) | 1:A:15:ARG:HD3  | 1:A:22:GLN:HA  | 11       | 12.73         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 2        | 12.73         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 16       | 12.73         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 5        | 12.73         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 6        | 12.73         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 5        | 12.73         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 5        | 12.73         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 15       | 12.73         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 2        | 12.73         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 10       | 12.73         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 6        | 12.73         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 6        | 12.73         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE21 | 11       | 12.73         |
| (1,2500) | 1:A:10:GLY:HA2 | 1:A:22:GLN:HE22 | 11       | 12.73         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 8        | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 16       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 16       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 18       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 18       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 19       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 19       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 20       | 12.73         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 20       | 12.73         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 7        | 12.73         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3  | 9        | 12.73         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 20       | 12.73         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 18       | 12.73         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 18       | 12.73         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 17       | 12.73         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 8        | 12.73         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 17       | 12.73         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 6        | 12.73         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 6        | 12.73         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 16       | 12.73         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 20       | 12.73         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 18       | 12.72         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 8        | 12.72         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 8        | 12.72         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 11       | 12.72         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 11       | 12.72         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 8        | 12.72         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 4        | 12.72         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 4        | 12.72         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1  | 16       | 12.72         |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1  | 15       | 12.72         |
| (1,4601) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HA   | 14       | 12.72         |
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA   | 14       | 12.72         |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1  | 6        | 12.72         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 9        | 12.72         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 9        | 12.72         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 9        | 12.72         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 9        | 12.72         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1  | 19       | 12.72         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2  | 19       | 12.72         |
| (1,3734) | 1:A:18:LEU:HG   | 1:A:23:TYR:HA   | 3        | 12.72         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1  | 15       | 12.72         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2  | 15       | 12.72         |
| (1,3595) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG2  | 16       | 12.72         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1  | 12       | 12.72         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2  | 12       | 12.72         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3  | 12       | 12.72         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3  | 16       | 12.72         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2  | 19       | 12.72         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3  | 19       | 12.72         |
| (1,3501) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HE21 | 10       | 12.72         |
| (1,3501) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HE22 | 10       | 12.72         |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2  | 5        | 12.72         |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2  | 10       | 12.72         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE1  | 2        | 12.72         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE2  | 2        | 12.72         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 4        | 12.72         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 4        | 12.72         |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1  | 17       | 12.72         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 10       | 12.72         |
| (1,3009) | 1:A:12:GLY:H    | 1:A:23:TYR:HE1  | 20       | 12.72         |
| (1,3009) | 1:A:12:GLY:H    | 1:A:23:TYR:HE2  | 20       | 12.72         |
| (1,2839) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HA   | 15       | 12.72         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 8        | 12.72         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 8        | 12.72         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 13       | 12.72         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 13       | 12.72         |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA   | 1        | 12.72         |
| (1,2674) | 1:A:11:TRP:HB2  | 1:A:35:HIS:HE1  | 9        | 12.72         |
| (1,2626) | 1:A:11:TRP:HA   | 1:A:27:GLY:HA3  | 3        | 12.72         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2  | 8        | 12.72         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3  | 8        | 12.72         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2  | 15       | 12.72         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3  | 15       | 12.72         |
| (1,2489) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HB2  | 10       | 12.72         |
| (1,2489) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HB3  | 10       | 12.72         |
| (1,2318) | 1:A:9:PRO:HG2   | 1:A:19:CYS:HB2  | 17       | 12.72         |
| (1,2267) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HB3  | 15       | 12.72         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1  | 12       | 12.72         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2  | 12       | 12.72         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1  | 18       | 12.72         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2  | 18       | 12.72         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2  | 8        | 12.72         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3  | 8        | 12.72         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 20       | 12.72         |
| (1,2032) | 1:A:8:GLY:H     | 1:A:15:ARG:HE   | 4        | 12.72         |
| (1,1974) | 1:A:7:CYS:H     | 1:A:35:HIS:HB2  | 7        | 12.72         |
| (1,1838) | 1:A:6:GLN:HE21  | 1:A:28:SER:H    | 14       | 12.72         |
| (1,1828) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HB2  | 11       | 12.72         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ1  | 12       | 12.72         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ2  | 12       | 12.72         |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ3  | 12       | 12.72         |
| (1,1539) | 1:A:6:GLN:H     | 1:A:31:LYS:HG2  | 8        | 12.72         |
| (1,1539) | 1:A:6:GLN:H     | 1:A:31:LYS:HG3  | 8        | 12.72         |
| (1,1369) | 1:A:4:ASN:HD22  | 1:A:28:SER:HB2  | 11       | 12.72         |
| (1,1369) | 1:A:4:ASN:HD22  | 1:A:28:SER:HB3  | 11       | 12.72         |
| (1,1335) | 1:A:4:ASN:HD22  | 1:A:14:CYS:H    | 10       | 12.72         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H    | 17       | 12.72         |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H    | 19       | 12.72         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB2   | 11       | 12.72         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB3   | 11       | 12.72         |
| (1,1083) | 1:A:4:ASN:H     | 1:A:22:GLN:HE21 | 3        | 12.72         |
| (1,1083) | 1:A:4:ASN:H     | 1:A:22:GLN:HE22 | 3        | 12.72         |
| (1,1027) | 1:A:3:PRO:HD3   | 1:A:23:TYR:H    | 16       | 12.72         |
| (1,871)  | 1:A:3:PRO:HB3   | 1:A:28:SER:H    | 20       | 12.71         |
| (1,802)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HA   | 2        | 12.71         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H    | 1        | 12.71         |
| (1,773)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:HA2   | 17       | 12.71         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H    | 5        | 12.71         |
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1  | 10       | 12.71         |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 15       | 12.71         |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 15       | 12.71         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 18       | 12.71         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 8        | 12.71         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 7        | 12.71         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 13       | 12.71         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 13       | 12.71         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 19       | 12.71         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 19       | 12.71         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3  | 19       | 12.71         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 2        | 12.71         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 2        | 12.71         |
| (1,3082) | 1:A:12:GLY:HA3  | 1:A:33:CYS:HB3  | 20       | 12.71         |
| (1,3079) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HB2  | 1        | 12.71         |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA   | 17       | 12.71         |
| (1,2692) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HG2  | 7        | 12.71         |
| (1,2626) | 1:A:11:TRP:HA   | 1:A:27:GLY:HA3  | 6        | 12.71         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2  | 11       | 12.71         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3  | 11       | 12.71         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2  | 19       | 12.71         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3  | 19       | 12.71         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB1  | 12       | 12.71         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB2  | 12       | 12.71         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB3  | 12       | 12.71         |
| (1,2415) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HB2  | 17       | 12.71         |
| (1,2415) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HB3  | 17       | 12.71         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE1  | 4        | 12.71         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE2  | 4        | 12.71         |
| (1,2147) | 1:A:9:PRO:HA    | 1:A:15:ARG:HB3  | 12       | 12.71         |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 8        | 12.71         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 7        | 12.71         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 9        | 12.71         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 16       | 12.71         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 18       | 12.71         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 19       | 12.71         |
| (1,1861) | 1:A:6:GLN:HE21  | 1:A:35:HIS:HB2  | 1        | 12.71         |
| (1,1861) | 1:A:6:GLN:HE21  | 1:A:35:HIS:HB3  | 1        | 12.71         |
| (1,1828) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HB2  | 13       | 12.71         |
| (1,1761) | 1:A:6:GLN:HG3   | 1:A:22:GLN:HE22 | 6        | 12.71         |
| (1,1676) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HG2  | 18       | 12.71         |
| (1,1676) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HG3  | 18       | 12.71         |
| (1,1668) | 1:A:6:GLN:HB3   | 1:A:28:SER:HB3  | 11       | 12.71         |
| (1,1430) | 1:A:5:GLY:H     | 1:A:22:GLN:HG3  | 19       | 12.71         |
| (1,1428) | 1:A:5:GLY:H     | 1:A:22:GLN:HG2  | 8        | 12.71         |
| (1,1339) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HG2  | 12       | 12.71         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1339) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HG3  | 12       | 12.71         |
| (1,1335) | 1:A:4:ASN:HD22  | 1:A:14:CYS:H    | 2        | 12.71         |
| (1,1335) | 1:A:4:ASN:HD22  | 1:A:14:CYS:H    | 5        | 12.71         |
| (1,1323) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HA    | 15       | 12.71         |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE   | 13       | 12.71         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA   | 3        | 12.71         |
| (1,1017) | 1:A:3:PRO:HD3   | 1:A:20:CYS:H    | 4        | 12.71         |
| (1,871)  | 1:A:3:PRO:HB3   | 1:A:28:SER:H    | 19       | 12.7          |
| (1,801)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:H    | 2        | 12.7          |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD2  | 9        | 12.7          |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD3  | 9        | 12.7          |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD2  | 9        | 12.7          |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD3  | 9        | 12.7          |
| (1,582)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB2  | 12       | 12.7          |
| (1,582)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB2  | 12       | 12.7          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1  | 2        | 12.7          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1  | 2        | 12.7          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 13       | 12.7          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 7        | 12.7          |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 3        | 12.7          |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 3        | 12.7          |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 12       | 12.7          |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 12       | 12.7          |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE21 | 2        | 12.7          |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE22 | 2        | 12.7          |
| (1,3478) | 1:A:16:GLY:H    | 1:A:30:PRO:HB2  | 6        | 12.7          |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 2        | 12.7          |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 2        | 12.7          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE21 | 10       | 12.7          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE22 | 10       | 12.7          |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 10       | 12.7          |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 10       | 12.7          |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 19       | 12.7          |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 19       | 12.7          |
| (1,2784) | 1:A:11:TRP:HE3  | 1:A:16:GLY:HA3  | 18       | 12.7          |
| (1,2784) | 1:A:11:TRP:HE3  | 1:A:16:GLY:HA3  | 19       | 12.7          |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H    | 2        | 12.7          |
| (1,2626) | 1:A:11:TRP:HA   | 1:A:27:GLY:HA3  | 2        | 12.7          |
| (1,2626) | 1:A:11:TRP:HA   | 1:A:27:GLY:HA3  | 4        | 12.7          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2  | 18       | 12.7          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3  | 18       | 12.7          |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB1  | 13       | 12.7          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2 | 13       | 12.7          |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3 | 13       | 12.7          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 3        | 12.7          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 3        | 12.7          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 4        | 12.7          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 4        | 12.7          |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 7        | 12.7          |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3 | 12       | 12.7          |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1 | 10       | 12.7          |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2 | 10       | 12.7          |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H   | 12       | 12.7          |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 8        | 12.7          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 16       | 12.7          |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2 | 13       | 12.7          |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H   | 3        | 12.7          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 8        | 12.7          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 8        | 12.7          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 10       | 12.7          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 10       | 12.7          |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3 | 12       | 12.7          |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 13       | 12.7          |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2 | 14       | 12.69         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3 | 14       | 12.69         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA  | 3        | 12.69         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA  | 3        | 12.69         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 1        | 12.69         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3 | 17       | 12.69         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 2        | 12.69         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 2        | 12.69         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 2        | 12.69         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 2        | 12.69         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 2        | 12.69         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 2        | 12.69         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 8        | 12.69         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 8        | 12.69         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2 | 10       | 12.69         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2 | 10       | 12.69         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3 | 10       | 12.69         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3 | 10       | 12.69         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 4        | 12.69         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA  | 4        | 12.69         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 19       | 12.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 19       | 12.69         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 3        | 12.69         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 3        | 12.69         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 6        | 12.69         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 6        | 12.69         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 1        | 12.69         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 4        | 12.69         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 7        | 12.69         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 7        | 12.69         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 12       | 12.69         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 12       | 12.69         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 9        | 12.69         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 9        | 12.69         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 6        | 12.69         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 2        | 12.69         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 2        | 12.69         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 14       | 12.69         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 14       | 12.69         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 10       | 12.69         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 10       | 12.69         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 10       | 12.69         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 9        | 12.69         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 9        | 12.69         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 19       | 12.69         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 19       | 12.69         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 20       | 12.69         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 18       | 12.69         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 11       | 12.69         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 18       | 12.69         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 19       | 12.69         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 9        | 12.69         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 9        | 12.69         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 18       | 12.69         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 18       | 12.69         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 7        | 12.69         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 12       | 12.69         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 11       | 12.69         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 14       | 12.69         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 12       | 12.69         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 5        | 12.69         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 13       | 12.69         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 13       | 12.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 14       | 12.69         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 2        | 12.69         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 2        | 12.69         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 1        | 12.69         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 3        | 12.69         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 3        | 12.69         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 6        | 12.69         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 6        | 12.69         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 9        | 12.69         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 13       | 12.69         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 3        | 12.69         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 19       | 12.69         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 20       | 12.69         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 20       | 12.69         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 14       | 12.69         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 15       | 12.69         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 15       | 12.69         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 4        | 12.69         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 18       | 12.69         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 5        | 12.69         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 5        | 12.69         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 16       | 12.68         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 18       | 12.68         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 20       | 12.68         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 2        | 12.68         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 2        | 12.68         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 7        | 12.68         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 9        | 12.68         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 9        | 12.68         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 16       | 12.68         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 16       | 12.68         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 16       | 12.68         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 16       | 12.68         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 19       | 12.68         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 19       | 12.68         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 19       | 12.68         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 19       | 12.68         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 19       | 12.68         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 18       | 12.68         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 18       | 12.68         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 20       | 12.68         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 20       | 12.68         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 12       | 12.68         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 12       | 12.68         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 15       | 12.68         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 15       | 12.68         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 11       | 12.68         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 6        | 12.68         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 6        | 12.68         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H    | 16       | 12.68         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H    | 18       | 12.68         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H    | 19       | 12.68         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 12       | 12.68         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 14       | 12.68         |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 14       | 12.68         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 10       | 12.68         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 17       | 12.68         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 17       | 12.68         |
| (1,3082) | 1:A:12:GLY:HA3 | 1:A:33:CYS:HB3  | 19       | 12.68         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 7        | 12.68         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 15       | 12.68         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 15       | 12.68         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 13       | 12.68         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 10       | 12.68         |
| (1,2729) | 1:A:11:TRP:HD1 | 1:A:16:GLY:H    | 14       | 12.68         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 10       | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 7        | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 7        | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 9        | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 9        | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 16       | 12.68         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 16       | 12.68         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 15       | 12.68         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 15       | 12.68         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 15       | 12.68         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 9        | 12.68         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 16       | 12.68         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 19       | 12.68         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 5        | 12.68         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 5        | 12.68         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 17       | 12.68         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 17       | 12.68         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 5        | 12.68         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 18       | 12.68         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 7        | 12.68         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 9        | 12.68         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 10       | 12.68         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 10       | 12.68         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 10       | 12.68         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE2  | 18       | 12.68         |
| (1,1382) | 1:A:4:ASN:HD22 | 1:A:31:LYS:HE3  | 18       | 12.68         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 9        | 12.68         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 9        | 12.68         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 14       | 12.68         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 6        | 12.68         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 6        | 12.68         |
| (1,1081) | 1:A:4:ASN:H    | 1:A:22:GLN:HB2  | 14       | 12.68         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 7        | 12.68         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 18       | 12.68         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 1        | 12.68         |
| (1,981)  | 1:A:3:PRO:HD2  | 1:A:28:SER:H    | 19       | 12.67         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 6        | 12.67         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 6        | 12.67         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 20       | 12.67         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 20       | 12.67         |
| (1,871)  | 1:A:3:PRO:HB3  | 1:A:28:SER:H    | 16       | 12.67         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB2  | 17       | 12.67         |
| (1,668)  | 1:A:2:GLY:H    | 1:A:33:CYS:HB3  | 17       | 12.67         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 6        | 12.67         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 6        | 12.67         |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 8        | 12.67         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 11       | 12.67         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 11       | 12.67         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 17       | 12.67         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 17       | 12.67         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 1        | 12.67         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H    | 7        | 12.67         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H    | 10       | 12.67         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H    | 10       | 12.67         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 1        | 12.67         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 1        | 12.67         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 11       | 12.67         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 11       | 12.67         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 18       | 12.67         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 18       | 12.67         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 15       | 12.67         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 3        | 12.67         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 12       | 12.67         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 1        | 12.67         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 17       | 12.67         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 6        | 12.67         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 1        | 12.67         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 10       | 12.67         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 10       | 12.67         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 15       | 12.67         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 11       | 12.67         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 11       | 12.67         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 16       | 12.67         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 16       | 12.67         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 18       | 12.67         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 20       | 12.67         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 10       | 12.67         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 13       | 12.67         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 6        | 12.67         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 4        | 12.67         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 4        | 12.67         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 7        | 12.67         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 7        | 12.67         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 3        | 12.67         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 18       | 12.67         |
| (1,1501) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HD2  | 6        | 12.67         |
| (1,1323) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HA    | 9        | 12.67         |
| (1,1281) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG3  | 16       | 12.67         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 8        | 12.67         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 18       | 12.67         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 19       | 12.67         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB2  | 5        | 12.66         |
| (1,969)  | 1:A:3:PRO:HD2  | 1:A:22:GLN:HB3  | 5        | 12.66         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 18       | 12.66         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 18       | 12.66         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 4        | 12.66         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 4        | 12.66         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 20       | 12.66         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 6        | 12.66         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 14       | 12.66         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 13       | 12.66         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 13       | 12.66         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 13       | 12.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB2  | 5        | 12.66         |
| (1,3529) | 1:A:16:GLY:HA3 | 1:A:22:GLN:HB3  | 5        | 12.66         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE2  | 18       | 12.66         |
| (1,3483) | 1:A:16:GLY:H   | 1:A:31:LYS:HE3  | 18       | 12.66         |
| (1,3478) | 1:A:16:GLY:H   | 1:A:30:PRO:HB2  | 17       | 12.66         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 7        | 12.66         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 7        | 12.66         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 14       | 12.66         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 2        | 12.66         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 5        | 12.66         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 12       | 12.66         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 4        | 12.66         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 14       | 12.66         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 13       | 12.66         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 13       | 12.66         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 14       | 12.66         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 14       | 12.66         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 14       | 12.66         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 3        | 12.66         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 11       | 12.66         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 2        | 12.66         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 2        | 12.66         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 5        | 12.66         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 5        | 12.66         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 8        | 12.66         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 2        | 12.66         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 17       | 12.66         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 17       | 12.66         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 15       | 12.66         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 2        | 12.66         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 2        | 12.66         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 19       | 12.66         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 6        | 12.66         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 13       | 12.66         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 18       | 12.66         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 1        | 12.66         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 1        | 12.66         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 3        | 12.66         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 14       | 12.66         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 6        | 12.66         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 20       | 12.66         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 20       | 12.66         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1017) | 1:A:3:PRO:HD3   | 1:A:20:CYS:H    | 3        | 12.66         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA   | 5        | 12.65         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA   | 5        | 12.65         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD1  | 16       | 12.65         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD2  | 16       | 12.65         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 3        | 12.65         |
| (1,773)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:HA2   | 1        | 12.65         |
| (1,773)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:HA2   | 4        | 12.65         |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA   | 3        | 12.65         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 11       | 12.65         |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 10       | 12.65         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB2  | 4        | 12.65         |
| (1,3529) | 1:A:16:GLY:HA3  | 1:A:22:GLN:HB3  | 4        | 12.65         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 20       | 12.65         |
| (1,3445) | 1:A:15:ARG:HE   | 1:A:32:TYR:H    | 1        | 12.65         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 5        | 12.65         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 5        | 12.65         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 20       | 12.65         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 20       | 12.65         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA   | 2        | 12.65         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 18       | 12.65         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 19       | 12.65         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE1  | 1        | 12.65         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE2  | 1        | 12.65         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1  | 4        | 12.65         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2  | 4        | 12.65         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1  | 6        | 12.65         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2  | 6        | 12.65         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 7        | 12.65         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 7        | 12.65         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 11       | 12.65         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 11       | 12.65         |
| (1,2716) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HA   | 2        | 12.65         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE21 | 8        | 12.65         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE22 | 8        | 12.65         |
| (1,2468) | 1:A:10:GLY:H    | 1:A:22:GLN:H    | 13       | 12.65         |
| (1,2418) | 1:A:9:PRO:HG3   | 1:A:35:HIS:H    | 11       | 12.65         |
| (1,2414) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HA   | 14       | 12.65         |
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA   | 2        | 12.65         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE1  | 10       | 12.65         |
| (1,2349) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HE2  | 10       | 12.65         |
| (1,2127) | 1:A:8:GLY:HA3   | 1:A:28:SER:H    | 7        | 12.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 16       | 12.65         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 18       | 12.65         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 19       | 12.65         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 20       | 12.65         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 12       | 12.65         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 18       | 12.65         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 10       | 12.65         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 14       | 12.65         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 14       | 12.65         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 14       | 12.65         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 12       | 12.65         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 12       | 12.65         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 10       | 12.65         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 8        | 12.65         |
| (1,1239) | 1:A:4:ASN:HB3  | 1:A:33:CYS:H    | 19       | 12.65         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 17       | 12.65         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 17       | 12.65         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 6        | 12.65         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 16       | 12.65         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 16       | 12.65         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 18       | 12.65         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 18       | 12.65         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 13       | 12.65         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 19       | 12.64         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 19       | 12.64         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 4        | 12.64         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 11       | 12.64         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 15       | 12.64         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 18       | 12.64         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 6        | 12.64         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 6        | 12.64         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 6        | 12.64         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 6        | 12.64         |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2  | 2        | 12.64         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 6        | 12.64         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 12       | 12.64         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 13       | 12.64         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 18       | 12.64         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 9        | 12.64         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 9        | 12.64         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 3        | 12.64         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 5        | 12.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 8        | 12.64         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 8        | 12.64         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 4        | 12.64         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 7        | 12.64         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 11       | 12.64         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 13       | 12.64         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 16       | 12.64         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 13       | 12.64         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 12       | 12.64         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 1        | 12.64         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 3        | 12.64         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 3        | 12.64         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 17       | 12.64         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 20       | 12.64         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 20       | 12.64         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 1        | 12.64         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 1        | 12.64         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 20       | 12.64         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 20       | 12.64         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 5        | 12.64         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 15       | 12.64         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 1        | 12.64         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 11       | 12.64         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 18       | 12.64         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 9        | 12.64         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 16       | 12.64         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3  | 19       | 12.64         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 9        | 12.64         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 9        | 12.64         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 6        | 12.64         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 20       | 12.64         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 7        | 12.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE2  | 18       | 12.64         |
| (1,1303) | 1:A:4:ASN:HD21 | 1:A:31:LYS:HE3  | 18       | 12.64         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 10       | 12.64         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 10       | 12.64         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 14       | 12.63         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 3        | 12.63         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 3        | 12.63         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 19       | 12.63         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 20       | 12.63         |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 19       | 12.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 2        | 12.63         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 10       | 12.63         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 4        | 12.63         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 4        | 12.63         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 20       | 12.63         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 20       | 12.63         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 15       | 12.63         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 15       | 12.63         |
| (1,3498) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HG2  | 14       | 12.63         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 18       | 12.63         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 18       | 12.63         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 8        | 12.63         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 20       | 12.63         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 9        | 12.63         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 7        | 12.63         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 7        | 12.63         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 8        | 12.63         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 8        | 12.63         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 7        | 12.63         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 3        | 12.63         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 2        | 12.63         |
| (1,2839) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HA   | 11       | 12.63         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 5        | 12.63         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 5        | 12.63         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 20       | 12.63         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 20       | 12.63         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 4        | 12.63         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 6        | 12.63         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 1        | 12.63         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 11       | 12.63         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 2        | 12.63         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 6        | 12.63         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 10       | 12.63         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 18       | 12.63         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 19       | 12.63         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 3        | 12.63         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1  | 4        | 12.63         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2  | 4        | 12.63         |
| (1,2355) | 1:A:9:PRO:HG2  | 1:A:35:HIS:H    | 17       | 12.63         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1  | 5        | 12.63         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2  | 5        | 12.63         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 8        | 12.63         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2215) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HE22 | 8        | 12.63         |
| (1,2213) | 1:A:9:PRO:HB2   | 1:A:22:GLN:H    | 7        | 12.63         |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 11       | 12.63         |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 16       | 12.63         |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 19       | 12.63         |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 20       | 12.63         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2  | 18       | 12.63         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3  | 18       | 12.63         |
| (1,2093) | 1:A:8:GLY:HA2   | 1:A:28:SER:H    | 14       | 12.63         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ1  | 7        | 12.63         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ2  | 7        | 12.63         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ3  | 7        | 12.63         |
| (1,1838) | 1:A:6:GLN:HE21  | 1:A:28:SER:H    | 6        | 12.63         |
| (1,1668) | 1:A:6:GLN:HB3   | 1:A:28:SER:HB3  | 18       | 12.63         |
| (1,1515) | 1:A:6:GLN:H     | 1:A:15:ARG:HE   | 3        | 12.63         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB2  | 17       | 12.63         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB3  | 17       | 12.63         |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H    | 20       | 12.63         |
| (1,1137) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HE   | 19       | 12.63         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA   | 10       | 12.63         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD1  | 19       | 12.63         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD2  | 19       | 12.63         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H    | 16       | 12.63         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H    | 18       | 12.63         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 6        | 12.62         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 6        | 12.62         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 7        | 12.62         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 7        | 12.62         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 18       | 12.62         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 18       | 12.62         |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 4        | 12.62         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 12       | 12.62         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 9        | 12.62         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 12       | 12.62         |
| (1,3139) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HE22 | 14       | 12.62         |
| (1,3079) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HB2  | 12       | 12.62         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE21 | 7        | 12.62         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE22 | 7        | 12.62         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H    | 6        | 12.62         |
| (1,2913) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:H    | 11       | 12.62         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 4        | 12.62         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 4        | 12.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA  | 14       | 12.62         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA  | 11       | 12.62         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2 | 2        | 12.62         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3 | 2        | 12.62         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2 | 4        | 12.62         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3 | 4        | 12.62         |
| (1,2542) | 1:A:10:GLY:HA3 | 1:A:21:SER:HB3 | 17       | 12.62         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 4        | 12.62         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 13       | 12.62         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 1        | 12.62         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 7        | 12.62         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 8        | 12.62         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 11       | 12.62         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 12       | 12.62         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1 | 11       | 12.62         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2 | 11       | 12.62         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 18       | 12.62         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 19       | 12.62         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 6        | 12.62         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 8        | 12.62         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 12       | 12.62         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 12       | 12.62         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 2        | 12.62         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 13       | 12.62         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 17       | 12.62         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 17       | 12.62         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 17       | 12.62         |
| (1,1668) | 1:A:6:GLN:HB3  | 1:A:28:SER:HB3 | 20       | 12.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 11       | 12.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 11       | 12.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 11       | 12.62         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3 | 15       | 12.62         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 9        | 12.62         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 6        | 12.62         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA  | 11       | 12.62         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 12       | 12.62         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 14       | 12.62         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 19       | 12.62         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2  | 13       | 12.61         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2  | 15       | 12.61         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1 | 3        | 12.61         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA  | 5        | 12.61         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA   | 5        | 12.61         |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 10       | 12.61         |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 10       | 12.61         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 2        | 12.61         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1  | 3        | 12.61         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2  | 3        | 12.61         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 8        | 12.61         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 9        | 12.61         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG2  | 16       | 12.61         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG3  | 16       | 12.61         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2  | 16       | 12.61         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3  | 16       | 12.61         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG2  | 16       | 12.61         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG3  | 16       | 12.61         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE1  | 11       | 12.61         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE2  | 11       | 12.61         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE1  | 11       | 12.61         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE2  | 11       | 12.61         |
| (1,3333) | 1:A:15:ARG:HB3  | 1:A:23:TYR:HD1  | 14       | 12.61         |
| (1,3333) | 1:A:15:ARG:HB3  | 1:A:23:TYR:HD2  | 14       | 12.61         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE1  | 14       | 12.61         |
| (1,3299) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HE2  | 14       | 12.61         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1  | 15       | 12.61         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2  | 15       | 12.61         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 15       | 12.61         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 15       | 12.61         |
| (1,3139) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HE22 | 15       | 12.61         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA   | 6        | 12.61         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H    | 7        | 12.61         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H    | 18       | 12.61         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H    | 19       | 12.61         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 2        | 12.61         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 2        | 12.61         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB2  | 6        | 12.61         |
| (1,2798) | 1:A:11:TRP:HE3  | 1:A:22:GLN:HB3  | 6        | 12.61         |
| (1,2716) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HA   | 7        | 12.61         |
| (1,2704) | 1:A:11:TRP:HB3  | 1:A:28:SER:H    | 14       | 12.61         |
| (1,2468) | 1:A:10:GLY:H    | 1:A:22:GLN:H    | 16       | 12.61         |
| (1,2468) | 1:A:10:GLY:H    | 1:A:22:GLN:H    | 20       | 12.61         |
| (1,2410) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HA   | 4        | 12.61         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1  | 9        | 12.61         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2  | 9        | 12.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 16       | 12.61         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 9        | 12.61         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 8        | 12.61         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 12       | 12.61         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 7        | 12.61         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 15       | 12.61         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 7        | 12.61         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 5        | 12.61         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 4        | 12.61         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 2        | 12.61         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA   | 16       | 12.61         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 20       | 12.61         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 20       | 12.61         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 18       | 12.6          |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 18       | 12.6          |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 17       | 12.6          |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 3        | 12.6          |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 7        | 12.6          |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 19       | 12.6          |
| (1,698)  | 1:A:2:GLY:HA2  | 1:A:28:SER:H    | 10       | 12.6          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 4        | 12.6          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 4        | 12.6          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 4        | 12.6          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 4        | 12.6          |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 7        | 12.6          |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 17       | 12.6          |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 17       | 12.6          |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 11       | 12.6          |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 16       | 12.6          |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1  | 4        | 12.6          |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2  | 4        | 12.6          |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 14       | 12.6          |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 14       | 12.6          |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 14       | 12.6          |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 14       | 12.6          |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 7        | 12.6          |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 7        | 12.6          |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 9        | 12.6          |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 9        | 12.6          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 14       | 12.6          |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 14       | 12.6          |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 20       | 12.6          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 8        | 12.6          |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 16       | 12.6          |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 20       | 12.6          |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H   | 4        | 12.6          |
| (1,2913) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:H   | 15       | 12.6          |
| (1,2719) | 1:A:11:TRP:HB3  | 1:A:33:CYS:HA  | 8        | 12.6          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2 | 5        | 12.6          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3 | 5        | 12.6          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2 | 10       | 12.6          |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3 | 10       | 12.6          |
| (1,2468) | 1:A:10:GLY:H    | 1:A:22:GLN:H   | 12       | 12.6          |
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 15       | 12.6          |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H   | 1        | 12.6          |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H   | 13       | 12.6          |
| (1,1782) | 1:A:6:GLN:HG3   | 1:A:33:CYS:H   | 4        | 12.6          |
| (1,1782) | 1:A:6:GLN:HG3   | 1:A:33:CYS:H   | 14       | 12.6          |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG2 | 1        | 12.6          |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG3 | 1        | 12.6          |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H   | 12       | 12.6          |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H   | 16       | 12.6          |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB2 | 4        | 12.6          |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB3 | 4        | 12.6          |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H   | 16       | 12.6          |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 9        | 12.6          |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 12       | 12.6          |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H   | 6        | 12.59         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2 | 2        | 12.59         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3 | 2        | 12.59         |
| (1,773)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:HA2  | 18       | 12.59         |
| (1,698)  | 1:A:2:GLY:HA2   | 1:A:28:SER:H   | 16       | 12.59         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2 | 12       | 12.59         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2 | 12       | 12.59         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3 | 12       | 12.59         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3 | 12       | 12.59         |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 8        | 12.59         |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 8        | 12.59         |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2 | 16       | 12.59         |
| (1,4586) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HA  | 4        | 12.59         |
| (1,4586) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HA  | 4        | 12.59         |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 2        | 12.59         |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 4        | 12.59         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 17       | 12.59         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 17       | 12.59         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 17       | 12.59         |
| (1,3734) | 1:A:18:LEU:HG   | 1:A:23:TYR:HA  | 6        | 12.59         |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1 | 20       | 12.59         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2 | 3        | 12.59         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3 | 3        | 12.59         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG2 | 13       | 12.59         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG3 | 13       | 12.59         |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3 | 3        | 12.59         |
| (1,3079) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HB2 | 8        | 12.59         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H   | 8        | 12.59         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H   | 12       | 12.59         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2 | 20       | 12.59         |
| (1,2963) | 1:A:11:TRP:HH2  | 1:A:15:ARG:H   | 8        | 12.59         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 9        | 12.59         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 13       | 12.59         |
| (1,2946) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:H   | 15       | 12.59         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H   | 2        | 12.59         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H   | 10       | 12.59         |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG2 | 15       | 12.59         |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG3 | 15       | 12.59         |
| (1,2784) | 1:A:11:TRP:HE3  | 1:A:16:GLY:HA3 | 20       | 12.59         |
| (1,2720) | 1:A:11:TRP:HB3  | 1:A:34:ALA:HB1 | 8        | 12.59         |
| (1,2720) | 1:A:11:TRP:HB3  | 1:A:34:ALA:HB2 | 8        | 12.59         |
| (1,2720) | 1:A:11:TRP:HB3  | 1:A:34:ALA:HB3 | 8        | 12.59         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB2 | 6        | 12.59         |
| (1,2621) | 1:A:11:TRP:HA   | 1:A:22:GLN:HB3 | 6        | 12.59         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB1 | 4        | 12.59         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB2 | 4        | 12.59         |
| (1,2613) | 1:A:11:TRP:H    | 1:A:34:ALA:HB3 | 4        | 12.59         |
| (1,2546) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HB2 | 14       | 12.59         |
| (1,2546) | 1:A:10:GLY:HA3  | 1:A:22:GLN:HB3 | 14       | 12.59         |
| (1,2412) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HE1 | 10       | 12.59         |
| (1,2412) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HE2 | 10       | 12.59         |
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 2        | 12.59         |
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 5        | 12.59         |
| (1,2272) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HB3 | 6        | 12.59         |
| (1,2237) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HD1 | 17       | 12.59         |
| (1,2237) | 1:A:9:PRO:HB2   | 1:A:32:TYR:HD2 | 17       | 12.59         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1 | 15       | 12.59         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2 | 15       | 12.59         |
| (1,2138) | 1:A:8:GLY:HA3   | 1:A:35:HIS:HD2 | 9        | 12.59         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 11       | 12.59         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 11       | 12.59         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 13       | 12.59         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 3        | 12.59         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 2        | 12.59         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 12       | 12.59         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 12       | 12.59         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 8        | 12.59         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 8        | 12.59         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 17       | 12.59         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 17       | 12.59         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 6        | 12.59         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 6        | 12.59         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 11       | 12.59         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 2        | 12.59         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 2        | 12.59         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 17       | 12.58         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 2        | 12.58         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 8        | 12.58         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 11       | 12.58         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 14       | 12.58         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 16       | 12.58         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 1        | 12.58         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 2        | 12.58         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 2        | 12.58         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 1        | 12.58         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 1        | 12.58         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 1        | 12.58         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 1        | 12.58         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 1        | 12.58         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 1        | 12.58         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 17       | 12.58         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 17       | 12.58         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 17       | 12.58         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 17       | 12.58         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 17       | 12.58         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 17       | 12.58         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 15       | 12.58         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 15       | 12.58         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 16       | 12.58         |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 10       | 12.58         |
| (1,3981) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HE1  | 15       | 12.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3949) | 1:A:20:CYS:H   | 1:A:35:HIS:HE1  | 14       | 12.58         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 18       | 12.58         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 18       | 12.58         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 14       | 12.58         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 10       | 12.58         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 10       | 12.58         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 2        | 12.58         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 3        | 12.58         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 10       | 12.58         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 8        | 12.58         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 8        | 12.58         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 1        | 12.58         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 18       | 12.58         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 18       | 12.58         |
| (1,2796) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HA   | 3        | 12.58         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 13       | 12.58         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 8        | 12.58         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 3        | 12.58         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 3        | 12.58         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 2        | 12.58         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 2        | 12.58         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 2        | 12.58         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 9        | 12.58         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 6        | 12.58         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 6        | 12.58         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 6        | 12.58         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 17       | 12.58         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 17       | 12.58         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 9        | 12.58         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 20       | 12.58         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 20       | 12.58         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 20       | 12.58         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 20       | 12.58         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 7        | 12.58         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 7        | 12.58         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 18       | 12.58         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 18       | 12.58         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 4        | 12.58         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 20       | 12.58         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 12       | 12.58         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 11       | 12.58         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 11       | 12.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 7        | 12.58         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 5        | 12.58         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 9        | 12.58         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 5        | 12.58         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 9        | 12.58         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 2        | 12.58         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 2        | 12.58         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 14       | 12.58         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 16       | 12.58         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 16       | 12.58         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 7        | 12.57         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 7        | 12.57         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 11       | 12.57         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 17       | 12.57         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 17       | 12.57         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 12       | 12.57         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 11       | 12.57         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 9        | 12.57         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 9        | 12.57         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 9        | 12.57         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 9        | 12.57         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB2  | 16       | 12.57         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB2  | 16       | 12.57         |
| (1,580)  | 1:A:1:SER:HB2  | 1:A:30:PRO:HB3  | 16       | 12.57         |
| (1,580)  | 1:A:1:SER:HB3  | 1:A:30:PRO:HB3  | 16       | 12.57         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 15       | 12.57         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 15       | 12.57         |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 10       | 12.57         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 4        | 12.57         |
| (1,3436) | 1:A:15:ARG:HE  | 1:A:29:GLY:HA3  | 16       | 12.57         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 16       | 12.57         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 16       | 12.57         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 9        | 12.57         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 9        | 12.57         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 2        | 12.57         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 1        | 12.57         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 1        | 12.57         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 13       | 12.57         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 13       | 12.57         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 19       | 12.57         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 19       | 12.57         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 19       | 12.57         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2 | 7        | 12.57         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2 | 17       | 12.57         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H   | 5        | 12.57         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2 | 3        | 12.57         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2 | 1        | 12.57         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3 | 1        | 12.57         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA  | 12       | 12.57         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 4        | 12.57         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 3        | 12.57         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 8        | 12.57         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 16       | 12.57         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 16       | 12.57         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 19       | 12.57         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 19       | 12.57         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 20       | 12.57         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 20       | 12.57         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2 | 11       | 12.57         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 1        | 12.57         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 8        | 12.57         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 9        | 12.57         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3 | 3        | 12.57         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 8        | 12.57         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 14       | 12.57         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 14       | 12.57         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 13       | 12.57         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 13       | 12.57         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 5        | 12.57         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 9        | 12.57         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 15       | 12.57         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA  | 9        | 12.57         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 6        | 12.57         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 3        | 12.57         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 11       | 12.57         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 11       | 12.57         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H   | 14       | 12.57         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 18       | 12.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 1        | 12.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 1        | 12.57         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 1        | 12.57         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 16       | 12.57         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 16       | 12.57         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 16       | 12.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 16       | 12.56         |
| (1,4010) | 1:A:20:CYS:HB3 | 1:A:35:HIS:HE1  | 4        | 12.56         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 3        | 12.56         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 12       | 12.56         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 12       | 12.56         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 8        | 12.56         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 18       | 12.56         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 19       | 12.56         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 15       | 12.56         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2  | 17       | 12.56         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 9        | 12.56         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 3        | 12.56         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 5        | 12.56         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 17       | 12.56         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 4        | 12.56         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 17       | 12.56         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 2        | 12.56         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 6        | 12.56         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 20       | 12.56         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 3        | 12.56         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 9        | 12.56         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 9        | 12.56         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 15       | 12.56         |
| (1,2316) | 1:A:9:PRO:HG2  | 1:A:19:CYS:H    | 17       | 12.56         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 1        | 12.56         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 10       | 12.56         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 16       | 12.56         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 16       | 12.56         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 8        | 12.56         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 12       | 12.56         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 20       | 12.56         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 8        | 12.56         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 8        | 12.56         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 19       | 12.56         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 19       | 12.56         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 11       | 12.56         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 12       | 12.56         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 13       | 12.56         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 19       | 12.56         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE21 | 7        | 12.56         |
| (1,1083) | 1:A:4:ASN:H    | 1:A:22:GLN:HE22 | 7        | 12.56         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 15       | 12.56         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA   | 2        | 12.55         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA   | 2        | 12.55         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 2        | 12.55         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 12       | 12.55         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 5        | 12.55         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 5        | 12.55         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 14       | 12.55         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 14       | 12.55         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 6        | 12.55         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 13       | 12.55         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 13       | 12.55         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 13       | 12.55         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 13       | 12.55         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 13       | 12.55         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 13       | 12.55         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 14       | 12.55         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 14       | 12.55         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 7        | 12.55         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 16       | 12.55         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 16       | 12.55         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 5        | 12.55         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 6        | 12.55         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG2  | 19       | 12.55         |
| (1,3482) | 1:A:16:GLY:H   | 1:A:31:LYS:HG3  | 19       | 12.55         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 14       | 12.55         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 14       | 12.55         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 4        | 12.55         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 4        | 12.55         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 4        | 12.55         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 4        | 12.55         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 8        | 12.55         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 8        | 12.55         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 16       | 12.55         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 15       | 12.55         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 10       | 12.55         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 19       | 12.55         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 11       | 12.55         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 18       | 12.55         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 18       | 12.55         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 6        | 12.55         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 14       | 12.55         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 14       | 12.55         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2 | 10       | 12.55         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3 | 10       | 12.55         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 7        | 12.55         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 16       | 12.55         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 18       | 12.55         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA  | 19       | 12.55         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3 | 4        | 12.55         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 8        | 12.55         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 8        | 12.55         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 16       | 12.55         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 20       | 12.55         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 19       | 12.55         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE1 | 6        | 12.55         |
| (1,2219) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HE2 | 6        | 12.55         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 15       | 12.55         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H   | 14       | 12.55         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 8        | 12.55         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 15       | 12.55         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 7        | 12.55         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 7        | 12.55         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 16       | 12.55         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 16       | 12.55         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 13       | 12.55         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 13       | 12.55         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 4        | 12.55         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 10       | 12.55         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2 | 6        | 12.55         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3 | 6        | 12.55         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 13       | 12.55         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 13       | 12.55         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 11       | 12.55         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 11       | 12.55         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 13       | 12.55         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 13       | 12.55         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 2        | 12.55         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 2        | 12.55         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 10       | 12.55         |
| (1,1240) | 1:A:4:ASN:HB3  | 1:A:33:CYS:HA  | 19       | 12.55         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 2        | 12.55         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 17       | 12.55         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H   | 6        | 12.55         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 20       | 12.55         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 5        | 12.54         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 10       | 12.54         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 13       | 12.54         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 13       | 12.54         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 9        | 12.54         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 19       | 12.54         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 19       | 12.54         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 5        | 12.54         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 5        | 12.54         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 5        | 12.54         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 5        | 12.54         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 5        | 12.54         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 5        | 12.54         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 10       | 12.54         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 10       | 12.54         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 10       | 12.54         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 10       | 12.54         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 8        | 12.54         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 20       | 12.54         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 2        | 12.54         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 2        | 12.54         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 5        | 12.54         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 5        | 12.54         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 12       | 12.54         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 12       | 12.54         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 4        | 12.54         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 8        | 12.54         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 8        | 12.54         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 11       | 12.54         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 11       | 12.54         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 13       | 12.54         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 13       | 12.54         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 20       | 12.54         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 5        | 12.54         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 20       | 12.54         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 9        | 12.54         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 15       | 12.54         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 8        | 12.54         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 3        | 12.54         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 3        | 12.54         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 5        | 12.54         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 5        | 12.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 10       | 12.54         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 10       | 12.54         |
| (1,2501) | 1:A:10:GLY:HA2 | 1:A:23:TYR:HB3  | 17       | 12.54         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 5        | 12.54         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 5        | 12.54         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 7        | 12.54         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 12       | 12.54         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 18       | 12.54         |
| (1,2347) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HA   | 17       | 12.54         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 14       | 12.54         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 12       | 12.54         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 19       | 12.54         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 15       | 12.54         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 12       | 12.54         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 11       | 12.54         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 16       | 12.54         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 16       | 12.54         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 16       | 12.54         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 1        | 12.54         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 12       | 12.54         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 10       | 12.54         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 3        | 12.54         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 3        | 12.54         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 10       | 12.54         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 10       | 12.54         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 2        | 12.54         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 2        | 12.54         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 1        | 12.54         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 4        | 12.54         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 4        | 12.54         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H    | 7        | 12.54         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ1  | 8        | 12.53         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ2  | 8        | 12.53         |
| (1,937)  | 1:A:3:PRO:HG2  | 1:A:31:LYS:HZ3  | 8        | 12.53         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ1  | 8        | 12.53         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ2  | 8        | 12.53         |
| (1,937)  | 1:A:3:PRO:HG3  | 1:A:31:LYS:HZ3  | 8        | 12.53         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H    | 4        | 12.53         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 5        | 12.53         |
| (1,773)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:HA2   | 10       | 12.53         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE21 | 7        | 12.53         |
| (1,734)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HE22 | 7        | 12.53         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 19       | 12.53         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 19       | 12.53         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 19       | 12.53         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 19       | 12.53         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 2        | 12.53         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 17       | 12.53         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 14       | 12.53         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 14       | 12.53         |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H    | 15       | 12.53         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 5        | 12.53         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 9        | 12.53         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 9        | 12.53         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD1  | 14       | 12.53         |
| (1,3562) | 1:A:17:GLY:H   | 1:A:23:TYR:HD2  | 14       | 12.53         |
| (1,3527) | 1:A:16:GLY:HA3 | 1:A:22:GLN:H    | 17       | 12.53         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 18       | 12.53         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 1        | 12.53         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 6        | 12.53         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 17       | 12.53         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 17       | 12.53         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 20       | 12.53         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2  | 3        | 12.53         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3  | 3        | 12.53         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 12       | 12.53         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 14       | 12.53         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE1  | 17       | 12.53         |
| (1,2484) | 1:A:10:GLY:H   | 1:A:32:TYR:HE2  | 17       | 12.53         |
| (1,2449) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HB3  | 17       | 12.53         |
| (1,2449) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HB3  | 17       | 12.53         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 17       | 12.53         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 17       | 12.53         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 19       | 12.53         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 16       | 12.53         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 16       | 12.53         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 11       | 12.53         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 9        | 12.53         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 14       | 12.53         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 14       | 12.53         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 7        | 12.53         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 9        | 12.53         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 2        | 12.53         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 19       | 12.53         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1525) | 1:A:6:GLN:H     | 1:A:22:GLN:HE22 | 11       | 12.53         |
| (1,1349) | 1:A:4:ASN:HD22  | 1:A:19:CYS:HB2  | 16       | 12.53         |
| (1,1349) | 1:A:4:ASN:HD22  | 1:A:19:CYS:HB3  | 16       | 12.53         |
| (1,1269) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HA   | 2        | 12.53         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA    | 18       | 12.53         |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H    | 18       | 12.53         |
| (1,1229) | 1:A:4:ASN:HB3   | 1:A:29:GLY:H    | 19       | 12.53         |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3  | 19       | 12.53         |
| (1,1017) | 1:A:3:PRO:HD3   | 1:A:20:CYS:H    | 2        | 12.53         |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H    | 3        | 12.53         |
| (1,1011) | 1:A:3:PRO:HD3   | 1:A:18:LEU:H    | 8        | 12.53         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ1  | 10       | 12.52         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ2  | 10       | 12.52         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ3  | 10       | 12.52         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ1  | 10       | 12.52         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ2  | 10       | 12.52         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ3  | 10       | 12.52         |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2  | 7        | 12.52         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 16       | 12.52         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 16       | 12.52         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 16       | 12.52         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1  | 1        | 12.52         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2  | 1        | 12.52         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 16       | 12.52         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 16       | 12.52         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 9        | 12.52         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 15       | 12.52         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 15       | 12.52         |
| (1,3418) | 1:A:15:ARG:HD2  | 1:A:35:HIS:HE1  | 8        | 12.52         |
| (1,3418) | 1:A:15:ARG:HD3  | 1:A:35:HIS:HE1  | 8        | 12.52         |
| (1,3366) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HA   | 9        | 12.52         |
| (1,3366) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HA   | 9        | 12.52         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 11       | 12.52         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 11       | 12.52         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 17       | 12.52         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA   | 1        | 12.52         |
| (1,3005) | 1:A:12:GLY:H    | 1:A:22:GLN:HG3  | 11       | 12.52         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2  | 15       | 12.52         |
| (1,2939) | 1:A:11:TRP:HZ2  | 1:A:14:CYS:HB3  | 6        | 12.52         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H    | 14       | 12.52         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2  | 17       | 12.52         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3  | 17       | 12.52         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA  | 18       | 12.52         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 5        | 12.52         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 14       | 12.52         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 12       | 12.52         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 12       | 12.52         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3 | 11       | 12.52         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 11       | 12.52         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 1        | 12.52         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 13       | 12.52         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 5        | 12.52         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 5        | 12.52         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE2 | 18       | 12.52         |
| (1,1850) | 1:A:6:GLN:HE21 | 1:A:31:LYS:HE3 | 18       | 12.52         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H   | 13       | 12.52         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 5        | 12.52         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 5        | 12.52         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 6        | 12.52         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 6        | 12.52         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 5        | 12.52         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 8        | 12.52         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 9        | 12.52         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 9        | 12.52         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 9        | 12.52         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE  | 20       | 12.52         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 6        | 12.52         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3 | 18       | 12.52         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA  | 5        | 12.52         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 9        | 12.51         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 9        | 12.51         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA  | 10       | 12.51         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA  | 10       | 12.51         |
| (1,863)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:H   | 3        | 12.51         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H   | 2        | 12.51         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 11       | 12.51         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 11       | 12.51         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3 | 4        | 12.51         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 7        | 12.51         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 7        | 12.51         |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA  | 9        | 12.51         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1 | 19       | 12.51         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE1 | 6        | 12.51         |
| (1,3630) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HE2 | 6        | 12.51         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 8        | 12.51         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 8        | 12.51         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 16       | 12.51         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 16       | 12.51         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 3        | 12.51         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 13       | 12.51         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 20       | 12.51         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 5        | 12.51         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 5        | 12.51         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 11       | 12.51         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 11       | 12.51         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H    | 15       | 12.51         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 8        | 12.51         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 8        | 12.51         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 14       | 12.51         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 14       | 12.51         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 6        | 12.51         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 6        | 12.51         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 5        | 12.51         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 6        | 12.51         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 10       | 12.51         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 8        | 12.51         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 13       | 12.51         |
| (1,2716) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HA   | 19       | 12.51         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 18       | 12.51         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 11       | 12.51         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 14       | 12.51         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 13       | 12.51         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 10       | 12.51         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 10       | 12.51         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 15       | 12.51         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 13       | 12.51         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 3        | 12.51         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 3        | 12.51         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 14       | 12.51         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 14       | 12.51         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 14       | 12.51         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 18       | 12.51         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 18       | 12.51         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 20       | 12.51         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 20       | 12.51         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 1        | 12.51         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1278) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HA   | 15       | 12.51         |
| (1,1275) | 1:A:4:ASN:HD21  | 1:A:20:CYS:H    | 6        | 12.51         |
| (1,1275) | 1:A:4:ASN:HD21  | 1:A:20:CYS:H    | 10       | 12.51         |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE   | 7        | 12.51         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA   | 13       | 12.51         |
| (1,861)  | 1:A:3:PRO:HB3   | 1:A:23:TYR:HD1  | 19       | 12.5          |
| (1,861)  | 1:A:3:PRO:HB3   | 1:A:23:TYR:HD2  | 19       | 12.5          |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 3        | 12.5          |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 5        | 12.5          |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 6        | 12.5          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 14       | 12.5          |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1  | 12       | 12.5          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 19       | 12.5          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 12       | 12.5          |
| (1,3761) | 1:A:18:LEU:HG   | 1:A:35:HIS:HE1  | 5        | 12.5          |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1  | 6        | 12.5          |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2  | 6        | 12.5          |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1  | 15       | 12.5          |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2  | 15       | 12.5          |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3  | 15       | 12.5          |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 1        | 12.5          |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 1        | 12.5          |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 8        | 12.5          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 9        | 12.5          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 9        | 12.5          |
| (1,2963) | 1:A:11:TRP:HH2  | 1:A:15:ARG:H    | 9        | 12.5          |
| (1,2909) | 1:A:11:TRP:HZ3  | 1:A:18:LEU:HB2  | 2        | 12.5          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE21 | 3        | 12.5          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE22 | 3        | 12.5          |
| (1,2859) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HG2  | 16       | 12.5          |
| (1,2795) | 1:A:11:TRP:HE3  | 1:A:21:SER:HB2  | 2        | 12.5          |
| (1,2716) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HA   | 16       | 12.5          |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H    | 6        | 12.5          |
| (1,2626) | 1:A:11:TRP:HA   | 1:A:27:GLY:HA3  | 20       | 12.5          |
| (1,2610) | 1:A:11:TRP:H    | 1:A:32:TYR:HB3  | 5        | 12.5          |
| (1,2600) | 1:A:11:TRP:H    | 1:A:27:GLY:HA3  | 14       | 12.5          |
| (1,2504) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HB3  | 9        | 12.5          |
| (1,2374) | 1:A:9:PRO:HG3   | 1:A:15:ARG:HE   | 8        | 12.5          |
| (1,2215) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HE21 | 5        | 12.5          |
| (1,2215) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HE22 | 5        | 12.5          |
| (1,2215) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HE21 | 14       | 12.5          |
| (1,2215) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HE22 | 14       | 12.5          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD1  | 7        | 12.5          |
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD2  | 7        | 12.5          |
| (1,2136) | 1:A:8:GLY:HA3   | 1:A:33:CYS:HB3  | 16       | 12.5          |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 3        | 12.5          |
| (1,2133) | 1:A:8:GLY:HA3   | 1:A:32:TYR:H    | 6        | 12.5          |
| (1,1900) | 1:A:6:GLN:HE22  | 1:A:28:SER:H    | 3        | 12.5          |
| (1,1750) | 1:A:6:GLN:HG3   | 1:A:16:GLY:H    | 13       | 12.5          |
| (1,1677) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HE2  | 4        | 12.5          |
| (1,1677) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HE3  | 4        | 12.5          |
| (1,1634) | 1:A:6:GLN:HB3   | 1:A:16:GLY:H    | 16       | 12.5          |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H    | 11       | 12.5          |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H    | 13       | 12.5          |
| (1,1240) | 1:A:4:ASN:HB3   | 1:A:33:CYS:HA   | 7        | 12.5          |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA   | 7        | 12.5          |
| (1,1027) | 1:A:3:PRO:HD3   | 1:A:23:TYR:H    | 14       | 12.5          |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1  | 17       | 12.49         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2  | 17       | 12.49         |
| (1,863)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:H    | 6        | 12.49         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 5        | 12.49         |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA   | 7        | 12.49         |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2  | 15       | 12.49         |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 18       | 12.49         |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2  | 4        | 12.49         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 8        | 12.49         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE1  | 14       | 12.49         |
| (1,3630) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HE2  | 14       | 12.49         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 8        | 12.49         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 8        | 12.49         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE2  | 11       | 12.49         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE3  | 11       | 12.49         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 10       | 12.49         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 10       | 12.49         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 5        | 12.49         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 5        | 12.49         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1  | 7        | 12.49         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2  | 7        | 12.49         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3  | 7        | 12.49         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 3        | 12.49         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 3        | 12.49         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 7        | 12.49         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 18       | 12.49         |
| (1,2909) | 1:A:11:TRP:HZ3  | 1:A:18:LEU:HB2  | 10       | 12.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 5        | 12.49         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 5        | 12.49         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 4        | 12.49         |
| (1,2784) | 1:A:11:TRP:HE3 | 1:A:16:GLY:HA3  | 9        | 12.49         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 9        | 12.49         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 20       | 12.49         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 10       | 12.49         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 9        | 12.49         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB1  | 8        | 12.49         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB2  | 8        | 12.49         |
| (1,2613) | 1:A:11:TRP:H   | 1:A:34:ALA:HB3  | 8        | 12.49         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 7        | 12.49         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 12       | 12.49         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 7        | 12.49         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 18       | 12.49         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 19       | 12.49         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 7        | 12.49         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 10       | 12.49         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 1        | 12.49         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 12       | 12.49         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 12       | 12.49         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2  | 3        | 12.49         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3  | 20       | 12.49         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 9        | 12.49         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 20       | 12.49         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 10       | 12.49         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 1        | 12.49         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 17       | 12.49         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 11       | 12.49         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 4        | 12.49         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 8        | 12.49         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 14       | 12.49         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 2        | 12.49         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 12       | 12.49         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 12       | 12.49         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 12       | 12.49         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 9        | 12.49         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 9        | 12.49         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 8        | 12.49         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 8        | 12.49         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 17       | 12.49         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 16       | 12.49         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB3 | 16       | 12.49         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA   | 7        | 12.49         |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3 | 7        | 12.49         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 15       | 12.49         |
| (1,1080) | 1:A:4:ASN:H     | 1:A:22:GLN:HG2 | 16       | 12.49         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1 | 16       | 12.49         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2 | 16       | 12.49         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1 | 20       | 12.49         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2 | 20       | 12.49         |
| (1,1017) | 1:A:3:PRO:HD3   | 1:A:20:CYS:H   | 5        | 12.49         |
| (1,937)  | 1:A:3:PRO:HG2   | 1:A:31:LYS:HZ1 | 18       | 12.48         |
| (1,937)  | 1:A:3:PRO:HG2   | 1:A:31:LYS:HZ2 | 18       | 12.48         |
| (1,937)  | 1:A:3:PRO:HG2   | 1:A:31:LYS:HZ3 | 18       | 12.48         |
| (1,937)  | 1:A:3:PRO:HG3   | 1:A:31:LYS:HZ1 | 18       | 12.48         |
| (1,937)  | 1:A:3:PRO:HG3   | 1:A:31:LYS:HZ2 | 18       | 12.48         |
| (1,937)  | 1:A:3:PRO:HG3   | 1:A:31:LYS:HZ3 | 18       | 12.48         |
| (1,913)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:H   | 6        | 12.48         |
| (1,913)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:H   | 6        | 12.48         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H   | 10       | 12.48         |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE  | 10       | 12.48         |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA  | 6        | 12.48         |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA  | 13       | 12.48         |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA  | 15       | 12.48         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3 | 10       | 12.48         |
| (1,4586) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HA  | 8        | 12.48         |
| (1,4586) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HA  | 8        | 12.48         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 11       | 12.48         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 11       | 12.48         |
| (1,3761) | 1:A:18:LEU:HG   | 1:A:35:HIS:HE1 | 4        | 12.48         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1 | 18       | 12.48         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2 | 18       | 12.48         |
| (1,3734) | 1:A:18:LEU:HG   | 1:A:23:TYR:HA  | 15       | 12.48         |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2 | 6        | 12.48         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2 | 20       | 12.48         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3 | 20       | 12.48         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG2 | 20       | 12.48         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG3 | 20       | 12.48         |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3 | 7        | 12.48         |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3 | 7        | 12.48         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H   | 14       | 12.48         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H   | 14       | 12.48         |
| (1,3300) | 1:A:15:ARG:HB2  | 1:A:24:GLY:H   | 5        | 12.48         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 6        | 12.48         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 6        | 12.48         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 6        | 12.48         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 6        | 12.48         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 14       | 12.48         |
| (1,3071) | 1:A:12:GLY:HA3 | 1:A:28:SER:H    | 19       | 12.48         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 12       | 12.48         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 3        | 12.48         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 18       | 12.48         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA   | 19       | 12.48         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 9        | 12.48         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 14       | 12.48         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 14       | 12.48         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 12       | 12.48         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 18       | 12.48         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 16       | 12.48         |
| (1,2537) | 1:A:10:GLY:HA3 | 1:A:19:CYS:HA   | 17       | 12.48         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 14       | 12.48         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 5        | 12.48         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 7        | 12.48         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 7        | 12.48         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 12       | 12.48         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 10       | 12.48         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 14       | 12.48         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 6        | 12.48         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 6        | 12.48         |
| (1,1635) | 1:A:6:GLN:HB3  | 1:A:16:GLY:HA2  | 14       | 12.48         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 2        | 12.48         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB2  | 19       | 12.48         |
| (1,1349) | 1:A:4:ASN:HD22 | 1:A:19:CYS:HB3  | 19       | 12.48         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 2        | 12.48         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 20       | 12.48         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 2        | 12.48         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 5        | 12.48         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 17       | 12.48         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 3        | 12.48         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 16       | 12.47         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 16       | 12.47         |
| (1,624)  | 1:A:2:GLY:H    | 1:A:17:GLY:HA2  | 17       | 12.47         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2  | 17       | 12.47         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2  | 17       | 12.47         |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 2        | 12.47         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 9        | 12.47         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 9        | 12.47         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 4        | 12.47         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 4        | 12.47         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1 | 2        | 12.47         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2 | 2        | 12.47         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2 | 6        | 12.47         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3 | 6        | 12.47         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2 | 13       | 12.47         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3 | 13       | 12.47         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA  | 14       | 12.47         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA  | 14       | 12.47         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 17       | 12.47         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3 | 1        | 12.47         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA  | 7        | 12.47         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3 | 1        | 12.47         |
| (1,2963) | 1:A:11:TRP:HH2 | 1:A:15:ARG:H   | 14       | 12.47         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H   | 5        | 12.47         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3 | 4        | 12.47         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H   | 3        | 12.47         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H   | 6        | 12.47         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA  | 7        | 12.47         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA  | 7        | 12.47         |
| (1,2719) | 1:A:11:TRP:HB3 | 1:A:33:CYS:HA  | 16       | 12.47         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3 | 8        | 12.47         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3 | 19       | 12.47         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2 | 14       | 12.47         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3 | 14       | 12.47         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 8        | 12.47         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H   | 12       | 12.47         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3 | 5        | 12.47         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 7        | 12.47         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 7        | 12.47         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2 | 17       | 12.47         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2 | 17       | 12.47         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3 | 17       | 12.47         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3 | 17       | 12.47         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 13       | 12.47         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1 | 9        | 12.47         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2 | 9        | 12.47         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 18       | 12.47         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 11       | 12.47         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2100) | 1:A:8:GLY:HA2   | 1:A:32:TYR:H   | 20       | 12.47         |
| (1,1838) | 1:A:6:GLN:HE21  | 1:A:28:SER:H   | 7        | 12.47         |
| (1,1814) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HA  | 15       | 12.47         |
| (1,1782) | 1:A:6:GLN:HG3   | 1:A:33:CYS:H   | 9        | 12.47         |
| (1,1782) | 1:A:6:GLN:HG3   | 1:A:33:CYS:H   | 15       | 12.47         |
| (1,1778) | 1:A:6:GLN:HG3   | 1:A:32:TYR:H   | 5        | 12.47         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA2 | 3        | 12.47         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA3 | 3        | 12.47         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA2 | 4        | 12.47         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA3 | 4        | 12.47         |
| (1,1451) | 1:A:5:GLY:H     | 1:A:34:ALA:HB1 | 4        | 12.47         |
| (1,1451) | 1:A:5:GLY:H     | 1:A:34:ALA:HB2 | 4        | 12.47         |
| (1,1451) | 1:A:5:GLY:H     | 1:A:34:ALA:HB3 | 4        | 12.47         |
| (1,1368) | 1:A:4:ASN:HD22  | 1:A:28:SER:H   | 15       | 12.47         |
| (1,1349) | 1:A:4:ASN:HD22  | 1:A:19:CYS:HB2 | 7        | 12.47         |
| (1,1349) | 1:A:4:ASN:HD22  | 1:A:19:CYS:HB3 | 7        | 12.47         |
| (1,1334) | 1:A:4:ASN:HD22  | 1:A:13:GLY:HA3 | 3        | 12.47         |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB2 | 5        | 12.47         |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB3 | 5        | 12.47         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA   | 12       | 12.47         |
| (1,1138) | 1:A:4:ASN:HB2   | 1:A:16:GLY:HA3 | 16       | 12.47         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 8        | 12.47         |
| (1,1108) | 1:A:4:ASN:H     | 1:A:32:TYR:HA  | 20       | 12.47         |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE  | 5        | 12.47         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1 | 18       | 12.47         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2 | 18       | 12.47         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H   | 17       | 12.46         |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 2        | 12.46         |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 2        | 12.46         |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 2        | 12.46         |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 13       | 12.46         |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 4        | 12.46         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 12       | 12.46         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 12       | 12.46         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 12       | 12.46         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 12       | 12.46         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H   | 8        | 12.46         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE1 | 12       | 12.46         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE2 | 12       | 12.46         |
| (1,3318) | 1:A:15:ARG:HB2  | 1:A:34:ALA:HA  | 18       | 12.46         |
| (1,3318) | 1:A:15:ARG:HB2  | 1:A:34:ALA:HA  | 19       | 12.46         |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2 | 4        | 12.46         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 8        | 12.46         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 8        | 12.46         |
| (1,2946) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:H    | 17       | 12.46         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 6        | 12.46         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 3        | 12.46         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 4        | 12.46         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 1        | 12.46         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 9        | 12.46         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 15       | 12.46         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 8        | 12.46         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 20       | 12.46         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 8        | 12.46         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3  | 13       | 12.46         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 11       | 12.46         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 8        | 12.46         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 8        | 12.46         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 19       | 12.46         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 13       | 12.46         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 16       | 12.46         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 18       | 12.46         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 19       | 12.46         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 17       | 12.46         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 13       | 12.46         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 13       | 12.46         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 13       | 12.46         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 6        | 12.46         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 8        | 12.46         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 16       | 12.46         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 1        | 12.46         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 1        | 12.46         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 12       | 12.46         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 12       | 12.46         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 11       | 12.46         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 16       | 12.46         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 10       | 12.46         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 4        | 12.45         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 4        | 12.45         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 20       | 12.45         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2  | 18       | 12.45         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2  | 18       | 12.45         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 8        | 12.45         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 13       | 12.45         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1  | 3        | 12.45         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1  | 3        | 12.45         |
| (1,4586) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HA   | 15       | 12.45         |
| (1,4586) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HA   | 15       | 12.45         |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 14       | 12.45         |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 14       | 12.45         |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1  | 6        | 12.45         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 12       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 11       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 11       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 11       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 18       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 18       | 12.45         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 18       | 12.45         |
| (1,3625) | 1:A:17:GLY:HA3  | 1:A:22:GLN:HG3  | 20       | 12.45         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1  | 1        | 12.45         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2  | 1        | 12.45         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE2  | 17       | 12.45         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE3  | 17       | 12.45         |
| (1,3556) | 1:A:17:GLY:H    | 1:A:22:GLN:H    | 3        | 12.45         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 12       | 12.45         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG2  | 20       | 12.45         |
| (1,3482) | 1:A:16:GLY:H    | 1:A:31:LYS:HG3  | 20       | 12.45         |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3  | 1        | 12.45         |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3  | 1        | 12.45         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 5        | 12.45         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 5        | 12.45         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 10       | 12.45         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 10       | 12.45         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1  | 1        | 12.45         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2  | 1        | 12.45         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1  | 7        | 12.45         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2  | 7        | 12.45         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 4        | 12.45         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 4        | 12.45         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 13       | 12.45         |
| (1,3071) | 1:A:12:GLY:HA3  | 1:A:28:SER:H    | 16       | 12.45         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA   | 13       | 12.45         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA   | 15       | 12.45         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2  | 4        | 12.45         |
| (1,2963) | 1:A:11:TRP:HH2  | 1:A:15:ARG:H    | 1        | 12.45         |
| (1,2942) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:H    | 10       | 12.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 5        | 12.45         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 8        | 12.45         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 2        | 12.45         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 5        | 12.45         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 10       | 12.45         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 14       | 12.45         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 6        | 12.45         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 3        | 12.45         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 6        | 12.45         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 1        | 12.45         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 16       | 12.45         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 11       | 12.45         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 10       | 12.45         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2  | 3        | 12.45         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3  | 3        | 12.45         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 12       | 12.45         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 1        | 12.45         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 18       | 12.45         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 6        | 12.45         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 6        | 12.45         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 1        | 12.45         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 6        | 12.45         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 8        | 12.45         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 11       | 12.45         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 15       | 12.45         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 17       | 12.45         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 9        | 12.45         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 14       | 12.45         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2  | 8        | 12.45         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3  | 8        | 12.45         |
| (1,1334) | 1:A:4:ASN:HD22 | 1:A:13:GLY:HA3  | 4        | 12.45         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 14       | 12.45         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 14       | 12.45         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 5        | 12.45         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 5        | 12.45         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 5        | 12.45         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 18       | 12.45         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 19       | 12.45         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 19       | 12.45         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 12       | 12.44         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 12       | 12.44         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 8        | 12.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 8        | 12.44         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 8        | 12.44         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 8        | 12.44         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 15       | 12.44         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 1        | 12.44         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 1        | 12.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 4        | 12.44         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 4        | 12.44         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 11       | 12.44         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 11       | 12.44         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 2        | 12.44         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 2        | 12.44         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 2        | 12.44         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 2        | 12.44         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 12       | 12.44         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 12       | 12.44         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 8        | 12.44         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 6        | 12.44         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 3        | 12.44         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 3        | 12.44         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 2        | 12.44         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 3        | 12.44         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 14       | 12.44         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 17       | 12.44         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 10       | 12.44         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 5        | 12.44         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 13       | 12.44         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 13       | 12.44         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 4        | 12.44         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB2  | 14       | 12.44         |
| (1,2798) | 1:A:11:TRP:HE3 | 1:A:22:GLN:HB3  | 14       | 12.44         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 13       | 12.44         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 5        | 12.44         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 13       | 12.44         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 5        | 12.44         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 15       | 12.44         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 15       | 12.44         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 15       | 12.44         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 10       | 12.44         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 19       | 12.44         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 7        | 12.44         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 7        | 12.44         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2213) | 1:A:9:PRO:HB2   | 1:A:22:GLN:H    | 1        | 12.44         |
| (1,2203) | 1:A:9:PRO:HB2   | 1:A:15:ARG:HE   | 12       | 12.44         |
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD1  | 12       | 12.44         |
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD2  | 12       | 12.44         |
| (1,2161) | 1:A:9:PRO:HA    | 1:A:22:GLN:HB3  | 1        | 12.44         |
| (1,2161) | 1:A:9:PRO:HA    | 1:A:22:GLN:HB3  | 10       | 12.44         |
| (1,1814) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HA   | 1        | 12.44         |
| (1,1788) | 1:A:6:GLN:HG3   | 1:A:35:HIS:HA   | 11       | 12.44         |
| (1,1782) | 1:A:6:GLN:HG3   | 1:A:33:CYS:H    | 1        | 12.44         |
| (1,1778) | 1:A:6:GLN:HG3   | 1:A:32:TYR:H    | 12       | 12.44         |
| (1,1691) | 1:A:6:GLN:HB3   | 1:A:35:HIS:HA   | 6        | 12.44         |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG2  | 5        | 12.44         |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG3  | 5        | 12.44         |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG2  | 7        | 12.44         |
| (1,1449) | 1:A:5:GLY:H     | 1:A:31:LYS:HG3  | 7        | 12.44         |
| (1,1368) | 1:A:4:ASN:HD22  | 1:A:28:SER:H    | 1        | 12.44         |
| (1,1279) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HG2  | 10       | 12.44         |
| (1,1273) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HA   | 3        | 12.44         |
| (1,1269) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HA   | 14       | 12.44         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2  | 17       | 12.44         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3  | 17       | 12.44         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG2  | 9        | 12.44         |
| (1,1166) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HG3  | 9        | 12.44         |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE   | 8        | 12.44         |
| (1,1027) | 1:A:3:PRO:HD3   | 1:A:23:TYR:H    | 2        | 12.44         |
| (1,1027) | 1:A:3:PRO:HD3   | 1:A:23:TYR:H    | 6        | 12.44         |
| (1,1017) | 1:A:3:PRO:HD3   | 1:A:20:CYS:H    | 14       | 12.44         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 17       | 12.43         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 17       | 12.43         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 17       | 12.43         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 17       | 12.43         |
| (1,913)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:H    | 3        | 12.43         |
| (1,913)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:H    | 3        | 12.43         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 14       | 12.43         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE21 | 7        | 12.43         |
| (1,524)  | 1:A:1:SER:HA    | 1:A:22:GLN:HE22 | 7        | 12.43         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 12       | 12.43         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 9        | 12.43         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 16       | 12.43         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 16       | 12.43         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 16       | 12.43         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 16       | 12.43         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 17       | 12.43         |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2  | 4        | 12.43         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 14       | 12.43         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 14       | 12.43         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 2        | 12.43         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 4        | 12.43         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 13       | 12.43         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 13       | 12.43         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 7        | 12.43         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1  | 17       | 12.43         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2  | 17       | 12.43         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 4        | 12.43         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 4        | 12.43         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 4        | 12.43         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 4        | 12.43         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 2        | 12.43         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 18       | 12.43         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H    | 19       | 12.43         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 3        | 12.43         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 16       | 12.43         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 16       | 12.43         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 7        | 12.43         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 2        | 12.43         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 9        | 12.43         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 15       | 12.43         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 2        | 12.43         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 16       | 12.43         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 18       | 12.43         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 20       | 12.43         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 10       | 12.43         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 10       | 12.43         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 10       | 12.43         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 15       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 16       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 16       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 18       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 18       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 19       | 12.43         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 19       | 12.43         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 15       | 12.43         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 15       | 12.43         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 13       | 12.43         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 13       | 12.43         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 10       | 12.43         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 10       | 12.43         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 16       | 12.43         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 16       | 12.43         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 13       | 12.43         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 14       | 12.43         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H   | 8        | 12.43         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 12       | 12.43         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 11       | 12.43         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H   | 7        | 12.43         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 4        | 12.43         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 5        | 12.43         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 5        | 12.43         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 14       | 12.43         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 14       | 12.43         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 7        | 12.43         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 7        | 12.43         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 14       | 12.43         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 13       | 12.43         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 16       | 12.43         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 18       | 12.43         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 19       | 12.43         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 13       | 12.43         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA  | 4        | 12.43         |
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA  | 19       | 12.43         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1 | 17       | 12.43         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2 | 17       | 12.43         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 20       | 12.42         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 20       | 12.42         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 4        | 12.42         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 12       | 12.42         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3 | 1        | 12.42         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3 | 7        | 12.42         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3 | 9        | 12.42         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2 | 12       | 12.42         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3 | 12       | 12.42         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2 | 12       | 12.42         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3 | 12       | 12.42         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 17       | 12.42         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1 | 12       | 12.42         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2 | 6        | 12.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 9        | 12.42         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 9        | 12.42         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 5        | 12.42         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 6        | 12.42         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 10       | 12.42         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1 | 8        | 12.42         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2 | 8        | 12.42         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3 | 8        | 12.42         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 8        | 12.42         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 8        | 12.42         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 15       | 12.42         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 10       | 12.42         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 1        | 12.42         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA  | 14       | 12.42         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 3        | 12.42         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 7        | 12.42         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 16       | 12.42         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 20       | 12.42         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 2        | 12.42         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 10       | 12.42         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2 | 14       | 12.42         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2 | 17       | 12.42         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 15       | 12.42         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA  | 10       | 12.42         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 14       | 12.42         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3 | 11       | 12.42         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 4        | 12.42         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 13       | 12.42         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 2        | 12.42         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 3        | 12.42         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 5        | 12.42         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 2        | 12.42         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 11       | 12.42         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 9        | 12.42         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 2        | 12.42         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 2        | 12.42         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 7        | 12.42         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 17       | 12.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2 | 17       | 12.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3 | 17       | 12.42         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 11       | 12.42         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 4        | 12.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 14       | 12.42         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 6        | 12.42         |
| (1,1011) | 1:A:3:PRO:HD3  | 1:A:18:LEU:H   | 9        | 12.42         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 8        | 12.41         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 8        | 12.41         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 17       | 12.41         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 17       | 12.41         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 17       | 12.41         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 8        | 12.41         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 19       | 12.41         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 20       | 12.41         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 20       | 12.41         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2 | 3        | 12.41         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3 | 3        | 12.41         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2 | 3        | 12.41         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3 | 3        | 12.41         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 11       | 12.41         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 11       | 12.41         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 11       | 12.41         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 17       | 12.41         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2 | 3        | 12.41         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2 | 14       | 12.41         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3 | 14       | 12.41         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 3        | 12.41         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 10       | 12.41         |
| (1,2913) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:H   | 9        | 12.41         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 5        | 12.41         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA  | 1        | 12.41         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 4        | 12.41         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 6        | 12.41         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 4        | 12.41         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 14       | 12.41         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3 | 5        | 12.41         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3 | 5        | 12.41         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 14       | 12.41         |
| (1,2357) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HB2 | 17       | 12.41         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 20       | 12.41         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 20       | 12.41         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 2        | 12.41         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 5        | 12.41         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 14       | 12.41         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 2        | 12.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 5        | 12.41         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 18       | 12.41         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 19       | 12.41         |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 20       | 12.41         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 10       | 12.41         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 10       | 12.41         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 18       | 12.41         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 10       | 12.41         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 10       | 12.41         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 18       | 12.41         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 19       | 12.41         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 10       | 12.41         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 5        | 12.41         |
| (1,1027) | 1:A:3:PRO:HD3  | 1:A:23:TYR:H    | 10       | 12.41         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 12       | 12.41         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 12       | 12.4          |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 12       | 12.4          |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 14       | 12.4          |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3  | 11       | 12.4          |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 6        | 12.4          |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 6        | 12.4          |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 6        | 12.4          |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 6        | 12.4          |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 3        | 12.4          |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 7        | 12.4          |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 7        | 12.4          |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 2        | 12.4          |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 10       | 12.4          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 10       | 12.4          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 10       | 12.4          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 10       | 12.4          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 10       | 12.4          |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 20       | 12.4          |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 20       | 12.4          |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 1        | 12.4          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 5        | 12.4          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 5        | 12.4          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 3        | 12.4          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 3        | 12.4          |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 17       | 12.4          |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 17       | 12.4          |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 3        | 12.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 2        | 12.4          |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 1        | 12.4          |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 5        | 12.4          |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 5        | 12.4          |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 15       | 12.4          |
| (1,1838) | 1:A:6:GLN:HE21 | 1:A:28:SER:H    | 16       | 12.4          |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 14       | 12.4          |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 7        | 12.4          |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 9        | 12.4          |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 17       | 12.4          |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 10       | 12.4          |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 10       | 12.4          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 15       | 12.4          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 15       | 12.4          |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 15       | 12.4          |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 14       | 12.4          |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 1        | 12.4          |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 1        | 12.4          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 20       | 12.4          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 20       | 12.4          |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 7        | 12.4          |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 11       | 12.4          |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 12       | 12.4          |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 20       | 12.4          |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 7        | 12.39         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 7        | 12.39         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 10       | 12.39         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 13       | 12.39         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 13       | 12.39         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 2        | 12.39         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 1        | 12.39         |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 18       | 12.39         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 6        | 12.39         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 6        | 12.39         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 6        | 12.39         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 6        | 12.39         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 11       | 12.39         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 17       | 12.39         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 6        | 12.39         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 6        | 12.39         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 12       | 12.39         |
| (1,2673) | 1:A:11:TRP:HB2 | 1:A:35:HIS:HD2  | 1        | 12.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 4        | 12.39         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 10       | 12.39         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 6        | 12.39         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 11       | 12.39         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 5        | 12.39         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 5        | 12.39         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 8        | 12.39         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 8        | 12.39         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 11       | 12.39         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 1        | 12.39         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 1        | 12.39         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 11       | 12.39         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 11       | 12.39         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 10       | 12.39         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 6        | 12.39         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 6        | 12.39         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 9        | 12.39         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 6        | 12.39         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 6        | 12.39         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 13       | 12.39         |
| (1,1788) | 1:A:6:GLN:HG3  | 1:A:35:HIS:HA   | 5        | 12.39         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 5        | 12.39         |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA   | 17       | 12.39         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 17       | 12.39         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 4        | 12.39         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 4        | 12.39         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 14       | 12.39         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 14       | 12.39         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 18       | 12.39         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 18       | 12.39         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 4        | 12.39         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 17       | 12.39         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 8        | 12.39         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 18       | 12.39         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 20       | 12.38         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 20       | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 1        | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 1        | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 3        | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 3        | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 14       | 12.38         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 14       | 12.38         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD2 | 17       | 12.38         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD3 | 17       | 12.38         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD2 | 17       | 12.38         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD3 | 17       | 12.38         |
| (1,4601) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HA  | 8        | 12.38         |
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA  | 8        | 12.38         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 18       | 12.38         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 18       | 12.38         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD1 | 7        | 12.38         |
| (1,3599) | 1:A:17:GLY:HA2  | 1:A:23:TYR:HD2 | 7        | 12.38         |
| (1,3556) | 1:A:17:GLY:H    | 1:A:22:GLN:H   | 11       | 12.38         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2 | 19       | 12.38         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3 | 19       | 12.38         |
| (1,3483) | 1:A:16:GLY:H    | 1:A:31:LYS:HE2 | 3        | 12.38         |
| (1,3483) | 1:A:16:GLY:H    | 1:A:31:LYS:HE3 | 3        | 12.38         |
| (1,3449) | 1:A:15:ARG:HE   | 1:A:34:ALA:HA  | 7        | 12.38         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2 | 17       | 12.38         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3 | 17       | 12.38         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB2 | 3        | 12.38         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB3 | 3        | 12.38         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1 | 1        | 12.38         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2 | 1        | 12.38         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3 | 1        | 12.38         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE1 | 13       | 12.38         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE2 | 13       | 12.38         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1 | 6        | 12.38         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2 | 6        | 12.38         |
| (1,3039) | 1:A:12:GLY:H    | 1:A:35:HIS:HB2 | 1        | 12.38         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA  | 12       | 12.38         |
| (1,2963) | 1:A:11:TRP:HH2  | 1:A:15:ARG:H   | 11       | 12.38         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2 | 3        | 12.38         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3 | 3        | 12.38         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2 | 4        | 12.38         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3 | 4        | 12.38         |
| (1,2823) | 1:A:11:TRP:HE3  | 1:A:32:TYR:HB2 | 6        | 12.38         |
| (1,2823) | 1:A:11:TRP:HE3  | 1:A:32:TYR:HB3 | 6        | 12.38         |
| (1,2795) | 1:A:11:TRP:HE3  | 1:A:21:SER:HB2 | 8        | 12.38         |
| (1,2787) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HA  | 11       | 12.38         |
| (1,2768) | 1:A:11:TRP:HD1  | 1:A:32:TYR:HA  | 5        | 12.38         |
| (1,2600) | 1:A:11:TRP:H    | 1:A:27:GLY:HA3 | 20       | 12.38         |
| (1,2549) | 1:A:10:GLY:HA3  | 1:A:23:TYR:H   | 1        | 12.38         |
| (1,2549) | 1:A:10:GLY:HA3  | 1:A:23:TYR:H   | 13       | 12.38         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1 | 7        | 12.38         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2 | 7        | 12.38         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 5        | 12.38         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 7        | 12.38         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 7        | 12.38         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3 | 6        | 12.38         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3 | 6        | 12.38         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA  | 5        | 12.38         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1 | 13       | 12.38         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2 | 13       | 12.38         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 4        | 12.38         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 3        | 12.38         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 3        | 12.38         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H   | 4        | 12.38         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 14       | 12.38         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 14       | 12.38         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 15       | 12.38         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 17       | 12.38         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 13       | 12.38         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1 | 8        | 12.38         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2 | 8        | 12.38         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3 | 8        | 12.38         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 20       | 12.38         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 20       | 12.38         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H   | 13       | 12.38         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 19       | 12.38         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 19       | 12.38         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H   | 19       | 12.38         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 20       | 12.37         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 20       | 12.37         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2 | 13       | 12.37         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3 | 13       | 12.37         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 18       | 12.37         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2 | 8        | 12.37         |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1 | 13       | 12.37         |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3 | 13       | 12.37         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H   | 3        | 12.37         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H   | 3        | 12.37         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 11       | 12.37         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 11       | 12.37         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA  | 18       | 12.37         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA  | 18       | 12.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 4        | 12.37         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 4        | 12.37         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 10       | 12.37         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 10       | 12.37         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 9        | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 7        | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 8        | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 15       | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 16       | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 18       | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 19       | 12.37         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 20       | 12.37         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 13       | 12.37         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 1        | 12.37         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 20       | 12.37         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 2        | 12.37         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 13       | 12.37         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 9        | 12.37         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 18       | 12.37         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 7        | 12.37         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 7        | 12.37         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 14       | 12.37         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 14       | 12.37         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 15       | 12.37         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 12       | 12.37         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 12       | 12.37         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 8        | 12.37         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 8        | 12.37         |
| (1,2190) | 1:A:9:PRO:HA   | 1:A:35:HIS:HB3  | 1        | 12.37         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 14       | 12.37         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 14       | 12.37         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H    | 2        | 12.37         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 7        | 12.37         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 7        | 12.37         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H    | 3        | 12.37         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 10       | 12.37         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 10       | 12.37         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 12       | 12.37         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 7        | 12.37         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 7        | 12.37         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 13       | 12.37         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 12       | 12.37         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB1  | 2        | 12.37         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB2  | 2        | 12.37         |
| (1,1451) | 1:A:5:GLY:H    | 1:A:34:ALA:HB3  | 2        | 12.37         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 13       | 12.37         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 13       | 12.37         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 4        | 12.37         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 13       | 12.37         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 11       | 12.36         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 11       | 12.36         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 13       | 12.36         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 13       | 12.36         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 5        | 12.36         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 5        | 12.36         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 18       | 12.36         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 18       | 12.36         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 17       | 12.36         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 14       | 12.36         |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 8        | 12.36         |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 8        | 12.36         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 17       | 12.36         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 17       | 12.36         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 5        | 12.36         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 5        | 12.36         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2  | 11       | 12.36         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 11       | 12.36         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 3        | 12.36         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 3        | 12.36         |
| (1,3105) | 1:A:13:GLY:H   | 1:A:22:GLN:HG3  | 20       | 12.36         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 2        | 12.36         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 4        | 12.36         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 12       | 12.36         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 12       | 12.36         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 9        | 12.36         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 12       | 12.36         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 9        | 12.36         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 15       | 12.36         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 18       | 12.36         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 19       | 12.36         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 9        | 12.36         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 20       | 12.36         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 19       | 12.36         |
| (1,2694) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG3  | 16       | 12.36         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 10       | 12.36         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 8        | 12.36         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 19       | 12.36         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 3        | 12.36         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 3        | 12.36         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 9        | 12.36         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 9        | 12.36         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 6        | 12.36         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 9        | 12.36         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 9        | 12.36         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 11       | 12.36         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 9        | 12.36         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 9        | 12.36         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 6        | 12.36         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 4        | 12.36         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 4        | 12.36         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 2        | 12.36         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 11       | 12.36         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H    | 1        | 12.36         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2  | 20       | 12.36         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 3        | 12.36         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 3        | 12.36         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 6        | 12.36         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 6        | 12.36         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 10       | 12.36         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 10       | 12.36         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 7        | 12.36         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 16       | 12.36         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 1        | 12.35         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 1        | 12.35         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 16       | 12.35         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 16       | 12.35         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 3        | 12.35         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 4        | 12.35         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 6        | 12.35         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 3        | 12.35         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 16       | 12.35         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 9        | 12.35         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 9        | 12.35         |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1  | 15       | 12.35         |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1  | 15       | 12.35         |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1  | 2        | 12.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1  | 2        | 12.35         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 12       | 12.35         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 12       | 12.35         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 12       | 12.35         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 12       | 12.35         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 13       | 12.35         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 13       | 12.35         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE1  | 14       | 12.35         |
| (1,3568) | 1:A:17:GLY:H   | 1:A:25:TYR:HE2  | 14       | 12.35         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 8        | 12.35         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 16       | 12.35         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 5        | 12.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 5        | 12.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 5        | 12.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 5        | 12.35         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ1  | 8        | 12.35         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ2  | 8        | 12.35         |
| (1,3164) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HZ3  | 8        | 12.35         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 16       | 12.35         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 16       | 12.35         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 10       | 12.35         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 20       | 12.35         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 8        | 12.35         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 20       | 12.35         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 2        | 12.35         |
| (1,2942) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:H    | 13       | 12.35         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 14       | 12.35         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 11       | 12.35         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 12       | 12.35         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 18       | 12.35         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 19       | 12.35         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 16       | 12.35         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 1        | 12.35         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 11       | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 8        | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 8        | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 12       | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 12       | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 14       | 12.35         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 14       | 12.35         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H    | 3        | 12.35         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 1        | 12.35         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 5        | 12.35         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H   | 4        | 12.35         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 16       | 12.35         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 16       | 12.35         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 9        | 12.35         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 9        | 12.35         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 10       | 12.35         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 10       | 12.35         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 18       | 12.35         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 18       | 12.35         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H   | 16       | 12.35         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 1        | 12.35         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 15       | 12.35         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 4        | 12.35         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 4        | 12.35         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 20       | 12.35         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 20       | 12.35         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 20       | 12.35         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2 | 10       | 12.35         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3 | 10       | 12.35         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 3        | 12.35         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 7        | 12.35         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 13       | 12.35         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 13       | 12.35         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 1        | 12.35         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 10       | 12.35         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 10       | 12.35         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 3        | 12.35         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 12       | 12.35         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 12       | 12.35         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 12       | 12.35         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3 | 16       | 12.35         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 2        | 12.35         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1 | 3        | 12.34         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2 | 3        | 12.34         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 5        | 12.34         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 9        | 12.34         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 9        | 12.34         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 9        | 12.34         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 9        | 12.34         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 9        | 12.34         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 9        | 12.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2  | 19       | 12.34         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2  | 19       | 12.34         |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1  | 2        | 12.34         |
| (1,3980) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HD2  | 10       | 12.34         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 18       | 12.34         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 19       | 12.34         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 13       | 12.34         |
| (1,3449) | 1:A:15:ARG:HE  | 1:A:34:ALA:HA   | 9        | 12.34         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 2        | 12.34         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 2        | 12.34         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 2        | 12.34         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 2        | 12.34         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 13       | 12.34         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 10       | 12.34         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 5        | 12.34         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 5        | 12.34         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 2        | 12.34         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 10       | 12.34         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 16       | 12.34         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 18       | 12.34         |
| (1,3033) | 1:A:12:GLY:H   | 1:A:32:TYR:HA   | 19       | 12.34         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 16       | 12.34         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 2        | 12.34         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 2        | 12.34         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 7        | 12.34         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 12       | 12.34         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 12       | 12.34         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 15       | 12.34         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 15       | 12.34         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 16       | 12.34         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 16       | 12.34         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 18       | 12.34         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 18       | 12.34         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 2        | 12.34         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 2        | 12.34         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 10       | 12.34         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 11       | 12.34         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 11       | 12.34         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 5        | 12.34         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H    | 10       | 12.34         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 3        | 12.34         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 20       | 12.34         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 8        | 12.34         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 13       | 12.34         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 13       | 12.34         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 12       | 12.34         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 20       | 12.34         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 18       | 12.34         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 5        | 12.34         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 18       | 12.34         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 18       | 12.34         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 18       | 12.34         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 18       | 12.34         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 7        | 12.34         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 7        | 12.34         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 19       | 12.34         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 19       | 12.34         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA  | 11       | 12.34         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 10       | 12.34         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3 | 7        | 12.34         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3 | 19       | 12.34         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 3        | 12.33         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 3        | 12.33         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 4        | 12.33         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 4        | 12.33         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 19       | 12.33         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 19       | 12.33         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 2        | 12.33         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 2        | 12.33         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H   | 13       | 12.33         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2 | 2        | 12.33         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3 | 2        | 12.33         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2 | 2        | 12.33         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3 | 2        | 12.33         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1 | 2        | 12.33         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2 | 4        | 12.33         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 13       | 12.33         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 13       | 12.33         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1 | 2        | 12.33         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H   | 20       | 12.33         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 13       | 12.33         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2 | 1        | 12.33         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3 | 16       | 12.33         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 2        | 12.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA   | 4        | 12.33         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 2        | 12.33         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 4        | 12.33         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 15       | 12.33         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 15       | 12.33         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 10       | 12.33         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 10       | 12.33         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 7        | 12.33         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 8        | 12.33         |
| (1,2626) | 1:A:11:TRP:HA  | 1:A:27:GLY:HA3  | 17       | 12.33         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 6        | 12.33         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 6        | 12.33         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 19       | 12.33         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 19       | 12.33         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 20       | 12.33         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 20       | 12.33         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 6        | 12.33         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 13       | 12.33         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 12       | 12.33         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 12       | 12.33         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 6        | 12.33         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 6        | 12.33         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 6        | 12.33         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 2        | 12.33         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 2        | 12.33         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 9        | 12.33         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 9        | 12.33         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 1        | 12.33         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 18       | 12.33         |
| (1,1782) | 1:A:6:GLN:HG3  | 1:A:33:CYS:H    | 19       | 12.33         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 5        | 12.33         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 5        | 12.33         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 10       | 12.33         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 15       | 12.33         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2  | 5        | 12.33         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3  | 5        | 12.33         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 5        | 12.33         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 17       | 12.33         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA    | 3        | 12.33         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 5        | 12.33         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 18       | 12.33         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 7        | 12.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1108) | 1:A:4:ASN:H    | 1:A:32:TYR:HA   | 2        | 12.33         |
| (1,1017) | 1:A:3:PRO:HD3  | 1:A:20:CYS:H    | 9        | 12.33         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 7        | 12.32         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 7        | 12.32         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 4        | 12.32         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 4        | 12.32         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 17       | 12.32         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 10       | 12.32         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 10       | 12.32         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 3        | 12.32         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3  | 17       | 12.32         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 15       | 12.32         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 15       | 12.32         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 15       | 12.32         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 15       | 12.32         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 15       | 12.32         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 15       | 12.32         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 7        | 12.32         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 7        | 12.32         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2  | 5        | 12.32         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 1        | 12.32         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 1        | 12.32         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 7        | 12.32         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 9        | 12.32         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 17       | 12.32         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 2        | 12.32         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 2        | 12.32         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 9        | 12.32         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 11       | 12.32         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 13       | 12.32         |
| (1,2795) | 1:A:11:TRP:HE3 | 1:A:21:SER:HB2  | 16       | 12.32         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 12       | 12.32         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 15       | 12.32         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 11       | 12.32         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 4        | 12.32         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 1        | 12.32         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 1        | 12.32         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 11       | 12.32         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 11       | 12.32         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 15       | 12.32         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 15       | 12.32         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 5        | 12.32         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H   | 4        | 12.32         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1 | 3        | 12.32         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2 | 3        | 12.32         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3 | 19       | 12.32         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 3        | 12.32         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 19       | 12.32         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 19       | 12.32         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 2        | 12.32         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 2        | 12.32         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 6        | 12.32         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 6        | 12.32         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 6        | 12.32         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 7        | 12.32         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 7        | 12.32         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 2        | 12.32         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 2        | 12.32         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 12       | 12.32         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 3        | 12.32         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 5        | 12.32         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA  | 17       | 12.31         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA  | 17       | 12.31         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1 | 6        | 12.31         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2 | 6        | 12.31         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 6        | 12.31         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 6        | 12.31         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 6        | 12.31         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 6        | 12.31         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 4        | 12.31         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H   | 14       | 12.31         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 10       | 12.31         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 8        | 12.31         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 8        | 12.31         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 8        | 12.31         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 8        | 12.31         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 19       | 12.31         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2 | 3        | 12.31         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2 | 3        | 12.31         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3 | 3        | 12.31         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3 | 3        | 12.31         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 8        | 12.31         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 8        | 12.31         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1 | 20       | 12.31         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2 | 20       | 12.31         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2 | 19       | 12.31         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3 | 19       | 12.31         |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H   | 12       | 12.31         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 10       | 12.31         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 10       | 12.31         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 10       | 12.31         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 10       | 12.31         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 2        | 12.31         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 2        | 12.31         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H   | 10       | 12.31         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 12       | 12.31         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1 | 3        | 12.31         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2 | 3        | 12.31         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2 | 5        | 12.31         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3 | 5        | 12.31         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 5        | 12.31         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 3        | 12.31         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H   | 12       | 12.31         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2 | 5        | 12.31         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3 | 5        | 12.31         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1 | 10       | 12.31         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2 | 10       | 12.31         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3 | 10       | 12.31         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA  | 11       | 12.31         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA  | 3        | 12.31         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 14       | 12.31         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 2        | 12.31         |
| (1,1750) | 1:A:6:GLN:HG3  | 1:A:16:GLY:H   | 11       | 12.31         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2 | 1        | 12.31         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 4        | 12.31         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 4        | 12.31         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 16       | 12.31         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 16       | 12.31         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 19       | 12.31         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 19       | 12.31         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 11       | 12.31         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 11       | 12.31         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3 | 10       | 12.31         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 10       | 12.31         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 10       | 12.31         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 14       | 12.31         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1  | 10       | 12.3          |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2  | 10       | 12.3          |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE   | 20       | 12.3          |
| (1,663)  | 1:A:2:GLY:H     | 1:A:32:TYR:HA   | 9        | 12.3          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 2        | 12.3          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 2        | 12.3          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 2        | 12.3          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 2        | 12.3          |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2  | 6        | 12.3          |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2  | 6        | 12.3          |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3  | 6        | 12.3          |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3  | 6        | 12.3          |
| (1,4586) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HA   | 13       | 12.3          |
| (1,4586) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HA   | 13       | 12.3          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 7        | 12.3          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 7        | 12.3          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 10       | 12.3          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 10       | 12.3          |
| (1,3556) | 1:A:17:GLY:H    | 1:A:22:GLN:H    | 15       | 12.3          |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3  | 11       | 12.3          |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H    | 1        | 12.3          |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H    | 13       | 12.3          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 3        | 12.3          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 3        | 12.3          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 3        | 12.3          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 3        | 12.3          |
| (1,3318) | 1:A:15:ARG:HB2  | 1:A:34:ALA:HA   | 14       | 12.3          |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA   | 8        | 12.3          |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 4        | 12.3          |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 4        | 12.3          |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 4        | 12.3          |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 4        | 12.3          |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ1  | 18       | 12.3          |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ2  | 18       | 12.3          |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ3  | 18       | 12.3          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 18       | 12.3          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 18       | 12.3          |
| (1,3079) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HB2  | 20       | 12.3          |
| (1,3057) | 1:A:12:GLY:HA3  | 1:A:22:GLN:H    | 1        | 12.3          |
| (1,3057) | 1:A:12:GLY:HA3  | 1:A:22:GLN:H    | 13       | 12.3          |
| (1,3005) | 1:A:12:GLY:H    | 1:A:22:GLN:HG3  | 17       | 12.3          |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2  | 2        | 12.3          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3  | 2        | 12.3          |
| (1,2768) | 1:A:11:TRP:HD1  | 1:A:32:TYR:HA   | 14       | 12.3          |
| (1,2662) | 1:A:11:TRP:HB2  | 1:A:28:SER:H    | 14       | 12.3          |
| (1,2414) | 1:A:9:PRO:HG3   | 1:A:33:CYS:HA   | 4        | 12.3          |
| (1,2348) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HD1  | 15       | 12.3          |
| (1,2348) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HD2  | 15       | 12.3          |
| (1,2339) | 1:A:9:PRO:HG2   | 1:A:27:GLY:H    | 3        | 12.3          |
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD1  | 6        | 12.3          |
| (1,2185) | 1:A:9:PRO:HA    | 1:A:32:TYR:HD2  | 6        | 12.3          |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2  | 13       | 12.3          |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3  | 13       | 12.3          |
| (1,1974) | 1:A:7:CYS:H     | 1:A:35:HIS:HB2  | 5        | 12.3          |
| (1,1900) | 1:A:6:GLN:HE22  | 1:A:28:SER:H    | 11       | 12.3          |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA2  | 9        | 12.3          |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA3  | 9        | 12.3          |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA2  | 13       | 12.3          |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA3  | 13       | 12.3          |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ1  | 6        | 12.3          |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ2  | 6        | 12.3          |
| (1,1678) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HZ3  | 6        | 12.3          |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2  | 11       | 12.3          |
| (1,1430) | 1:A:5:GLY:H     | 1:A:22:GLN:HG3  | 20       | 12.3          |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB2  | 4        | 12.3          |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB3  | 4        | 12.3          |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB2  | 6        | 12.3          |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB3  | 6        | 12.3          |
| (1,1345) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HG   | 17       | 12.3          |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE21 | 4        | 12.3          |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE22 | 4        | 12.3          |
| (1,1078) | 1:A:4:ASN:H     | 1:A:22:GLN:H    | 17       | 12.3          |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H    | 10       | 12.3          |
| (1,918)  | 1:A:3:PRO:HG2   | 1:A:20:CYS:H    | 17       | 12.29         |
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H    | 17       | 12.29         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 11       | 12.29         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 11       | 12.29         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2  | 10       | 12.29         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2  | 10       | 12.29         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3  | 10       | 12.29         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3  | 10       | 12.29         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 16       | 12.29         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 4        | 12.29         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 4        | 12.29         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 4        | 12.29         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1  | 7        | 12.29         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2  | 7        | 12.29         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 12       | 12.29         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 12       | 12.29         |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 11       | 12.29         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 7        | 12.29         |
| (1,3450) | 1:A:15:ARG:HE   | 1:A:35:HIS:HB3  | 8        | 12.29         |
| (1,3446) | 1:A:15:ARG:HE   | 1:A:32:TYR:HA   | 12       | 12.29         |
| (1,3413) | 1:A:15:ARG:HD2  | 1:A:31:LYS:HA   | 19       | 12.29         |
| (1,3413) | 1:A:15:ARG:HD3  | 1:A:31:LYS:HA   | 19       | 12.29         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 4        | 12.29         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 4        | 12.29         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 4        | 12.29         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 4        | 12.29         |
| (1,3318) | 1:A:15:ARG:HB2  | 1:A:34:ALA:HA   | 5        | 12.29         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1  | 17       | 12.29         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2  | 17       | 12.29         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG2  | 18       | 12.29         |
| (1,3163) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HG3  | 18       | 12.29         |
| (1,2734) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HG   | 6        | 12.29         |
| (1,2600) | 1:A:11:TRP:H    | 1:A:27:GLY:HA3  | 1        | 12.29         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG2  | 13       | 12.29         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG3  | 13       | 12.29         |
| (1,2162) | 1:A:9:PRO:HA    | 1:A:22:GLN:HG3  | 17       | 12.29         |
| (1,2155) | 1:A:9:PRO:HA    | 1:A:19:CYS:H    | 8        | 12.29         |
| (1,2155) | 1:A:9:PRO:HA    | 1:A:19:CYS:H    | 12       | 12.29         |
| (1,2019) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HD2  | 8        | 12.29         |
| (1,2019) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HD2  | 8        | 12.29         |
| (1,1828) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HB2  | 2        | 12.29         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA2  | 12       | 12.29         |
| (1,1775) | 1:A:6:GLN:HG3   | 1:A:29:GLY:HA3  | 12       | 12.29         |
| (1,1773) | 1:A:6:GLN:HG3   | 1:A:28:SER:HB3  | 4        | 12.29         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB2  | 14       | 12.29         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB3  | 14       | 12.29         |
| (1,1676) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HG2  | 11       | 12.29         |
| (1,1676) | 1:A:6:GLN:HB3   | 1:A:31:LYS:HG3  | 11       | 12.29         |
| (1,1634) | 1:A:6:GLN:HB3   | 1:A:16:GLY:H    | 9        | 12.29         |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG2  | 12       | 12.29         |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG3  | 12       | 12.29         |
| (1,1347) | 1:A:4:ASN:HD22  | 1:A:19:CYS:H    | 12       | 12.29         |
| (1,1107) | 1:A:4:ASN:H     | 1:A:31:LYS:HZ1  | 6        | 12.29         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2 | 6        | 12.29         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3 | 6        | 12.29         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 18       | 12.28         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 18       | 12.28         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 2        | 12.28         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 2        | 12.28         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1 | 14       | 12.28         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2 | 14       | 12.28         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 5        | 12.28         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 5        | 12.28         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 14       | 12.28         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2 | 9        | 12.28         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3 | 9        | 12.28         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 5        | 12.28         |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H   | 10       | 12.28         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2 | 13       | 12.28         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3 | 18       | 12.28         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H   | 5        | 12.28         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H   | 5        | 12.28         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 4        | 12.28         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 4        | 12.28         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H   | 6        | 12.28         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 9        | 12.28         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 11       | 12.28         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 15       | 12.28         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA  | 1        | 12.28         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H   | 16       | 12.28         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3 | 13       | 12.28         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1 | 5        | 12.28         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2 | 5        | 12.28         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1 | 13       | 12.28         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2 | 13       | 12.28         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 11       | 12.28         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 11       | 12.28         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 6        | 12.28         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE  | 20       | 12.28         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 16       | 12.28         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2 | 4        | 12.28         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3 | 4        | 12.28         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 10       | 12.28         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 5        | 12.28         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 6        | 12.28         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1694) | 1:A:6:GLN:HB3   | 1:A:35:HIS:HE1  | 9        | 12.28         |
| (1,1634) | 1:A:6:GLN:HB3   | 1:A:16:GLY:H    | 8        | 12.28         |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2  | 8        | 12.28         |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB2  | 7        | 12.28         |
| (1,1358) | 1:A:4:ASN:HD22  | 1:A:22:GLN:HB3  | 7        | 12.28         |
| (1,1347) | 1:A:4:ASN:HD22  | 1:A:19:CYS:H    | 1        | 12.28         |
| (1,1347) | 1:A:4:ASN:HD22  | 1:A:19:CYS:H    | 15       | 12.28         |
| (1,1269) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HA   | 13       | 12.28         |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H    | 17       | 12.28         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 1        | 12.27         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 1        | 12.27         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H    | 2        | 12.27         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H    | 5        | 12.27         |
| (1,792)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:H    | 6        | 12.27         |
| (1,633)  | 1:A:2:GLY:H     | 1:A:22:GLN:HG2  | 15       | 12.27         |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2  | 5        | 12.27         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 18       | 12.27         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 19       | 12.27         |
| (1,4656) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HB3  | 20       | 12.27         |
| (1,4556) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HE1  | 5        | 12.27         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 3        | 12.27         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 3        | 12.27         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 8        | 12.27         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 8        | 12.27         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 8        | 12.27         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 8        | 12.27         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 8        | 12.27         |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE21 | 1        | 12.27         |
| (1,3598) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HE22 | 1        | 12.27         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 3        | 12.27         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 3        | 12.27         |
| (1,3448) | 1:A:15:ARG:HE   | 1:A:34:ALA:H    | 7        | 12.27         |
| (1,3446) | 1:A:15:ARG:HE   | 1:A:32:TYR:HA   | 18       | 12.27         |
| (1,3418) | 1:A:15:ARG:HD2  | 1:A:35:HIS:HE1  | 2        | 12.27         |
| (1,3418) | 1:A:15:ARG:HD3  | 1:A:35:HIS:HE1  | 2        | 12.27         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA   | 7        | 12.27         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE1  | 16       | 12.27         |
| (1,3266) | 1:A:15:ARG:H    | 1:A:23:TYR:HE2  | 16       | 12.27         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 4        | 12.27         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 4        | 12.27         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3  | 14       | 12.27         |
| (1,3057) | 1:A:12:GLY:HA3  | 1:A:22:GLN:H    | 5        | 12.27         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 6        | 12.27         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 10       | 12.27         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 10       | 12.27         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE1  | 17       | 12.27         |
| (1,3009) | 1:A:12:GLY:H   | 1:A:23:TYR:HE2  | 17       | 12.27         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 11       | 12.27         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 12       | 12.27         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 15       | 12.27         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 15       | 12.27         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3  | 11       | 12.27         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 19       | 12.27         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA   | 18       | 12.27         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 5        | 12.27         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 5        | 12.27         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 9        | 12.27         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 19       | 12.27         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 19       | 12.27         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 2        | 12.27         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 17       | 12.27         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 17       | 12.27         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 2        | 12.27         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 2        | 12.27         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 4        | 12.27         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 1        | 12.27         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 1        | 12.27         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 19       | 12.27         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 2        | 12.27         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 2        | 12.27         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 1        | 12.27         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 11       | 12.27         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 9        | 12.27         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 9        | 12.27         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA   | 3        | 12.27         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA    | 4        | 12.27         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 11       | 12.27         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 8        | 12.27         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 4        | 12.27         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 4        | 12.27         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 4        | 12.27         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 9        | 12.26         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 9        | 12.26         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 1        | 12.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 19       | 12.26         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 19       | 12.26         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 19       | 12.26         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 19       | 12.26         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 19       | 12.26         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 19       | 12.26         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2  | 18       | 12.26         |
| (1,4010) | 1:A:20:CYS:HB3 | 1:A:35:HIS:HE1  | 15       | 12.26         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 3        | 12.26         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 4        | 12.26         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 6        | 12.26         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 6        | 12.26         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 17       | 12.26         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 17       | 12.26         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 17       | 12.26         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 17       | 12.26         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 15       | 12.26         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 20       | 12.26         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 20       | 12.26         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 20       | 12.26         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 19       | 12.26         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 19       | 12.26         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 6        | 12.26         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 4        | 12.26         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 4        | 12.26         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 18       | 12.26         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2  | 19       | 12.26         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 4        | 12.26         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 4        | 12.26         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 14       | 12.26         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 14       | 12.26         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 13       | 12.26         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 13       | 12.26         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 3        | 12.26         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 5        | 12.26         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 5        | 12.26         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 5        | 12.26         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 16       | 12.26         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 20       | 12.26         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 18       | 12.26         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 18       | 12.26         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 20       | 12.26         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 20       | 12.26         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 3        | 12.26         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 6        | 12.26         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 15       | 12.26         |
| (1,1278) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HA  | 4        | 12.26         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 17       | 12.26         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 17       | 12.26         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 4        | 12.26         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 2        | 12.26         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 6        | 12.26         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 10       | 12.25         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 10       | 12.25         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1 | 12       | 12.25         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2 | 12       | 12.25         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1 | 10       | 12.25         |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2 | 10       | 12.25         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2 | 15       | 12.25         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3 | 15       | 12.25         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H   | 11       | 12.25         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 4        | 12.25         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3 | 13       | 12.25         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3 | 15       | 12.25         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 13       | 12.25         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 13       | 12.25         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 8        | 12.25         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 8        | 12.25         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 19       | 12.25         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 19       | 12.25         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 20       | 12.25         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 20       | 12.25         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2 | 6        | 12.25         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3 | 6        | 12.25         |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3 | 4        | 12.25         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2 | 20       | 12.25         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3 | 20       | 12.25         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3 | 13       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 14       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 14       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 14       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 14       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 18       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 18       | 12.25         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 18       | 12.25         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 18       | 12.25         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 3        | 12.25         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 3        | 12.25         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1 | 2        | 12.25         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1 | 2        | 12.25         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2 | 2        | 12.25         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3 | 7        | 12.25         |
| (1,3079) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HB2 | 16       | 12.25         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 3        | 12.25         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 3        | 12.25         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2 | 6        | 12.25         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 1        | 12.25         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 9        | 12.25         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2 | 3        | 12.25         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE  | 3        | 12.25         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 20       | 12.25         |
| (1,2600) | 1:A:11:TRP:H   | 1:A:27:GLY:HA3 | 13       | 12.25         |
| (1,2495) | 1:A:10:GLY:HA2 | 1:A:21:SER:HG  | 17       | 12.25         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 1        | 12.25         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 1        | 12.25         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 20       | 12.25         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE1 | 17       | 12.25         |
| (1,2167) | 1:A:9:PRO:HA   | 1:A:23:TYR:HE2 | 17       | 12.25         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 20       | 12.25         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 2        | 12.25         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 2        | 12.25         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 12       | 12.25         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 3        | 12.25         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H   | 16       | 12.25         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 15       | 12.25         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 15       | 12.25         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 3        | 12.25         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 20       | 12.25         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 3        | 12.25         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 15       | 12.25         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 15       | 12.25         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 17       | 12.25         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 17       | 12.25         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 17       | 12.24         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 6        | 12.24         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 6        | 12.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 7        | 12.24         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 12       | 12.24         |
| (1,732)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HG2  | 10       | 12.24         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 18       | 12.24         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 18       | 12.24         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 13       | 12.24         |
| (1,4384) | 1:A:23:TYR:HB2 | 1:A:35:HIS:H    | 14       | 12.24         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE21 | 15       | 12.24         |
| (1,3598) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HE22 | 15       | 12.24         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 16       | 12.24         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 16       | 12.24         |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 9        | 12.24         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 1        | 12.24         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 6        | 12.24         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 5        | 12.24         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 5        | 12.24         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 11       | 12.24         |
| (1,3366) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HA   | 14       | 12.24         |
| (1,3366) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HA   | 14       | 12.24         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 15       | 12.24         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 20       | 12.24         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 4        | 12.24         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 4        | 12.24         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 3        | 12.24         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 2        | 12.24         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 2        | 12.24         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 10       | 12.24         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 10       | 12.24         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 15       | 12.24         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 5        | 12.24         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 8        | 12.24         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 10       | 12.24         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 4        | 12.24         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 4        | 12.24         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 17       | 12.24         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 17       | 12.24         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H    | 3        | 12.24         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 13       | 12.24         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 13       | 12.24         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 7        | 12.24         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 17       | 12.24         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 3        | 12.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 3        | 12.24         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 6        | 12.24         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 5        | 12.24         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 6        | 12.24         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 18       | 12.24         |
| (1,1778) | 1:A:6:GLN:HG3  | 1:A:32:TYR:H    | 19       | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 1        | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 1        | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 8        | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 8        | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2  | 16       | 12.24         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3  | 16       | 12.24         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 15       | 12.24         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 15       | 12.24         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 4        | 12.24         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 12       | 12.24         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 12       | 12.24         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 8        | 12.24         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 13       | 12.24         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 1        | 12.23         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 12       | 12.23         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 12       | 12.23         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 12       | 12.23         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 13       | 12.23         |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H    | 12       | 12.23         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 14       | 12.23         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 14       | 12.23         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD1  | 20       | 12.23         |
| (1,3627) | 1:A:17:GLY:HA3 | 1:A:23:TYR:HD2  | 20       | 12.23         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 14       | 12.23         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA   | 1        | 12.23         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 3        | 12.23         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H    | 16       | 12.23         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 16       | 12.23         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 16       | 12.23         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 17       | 12.23         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 17       | 12.23         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 16       | 12.23         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 16       | 12.23         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 6        | 12.23         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 6        | 12.23         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 8        | 12.23         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 15       | 12.23         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 18       | 12.23         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 19       | 12.23         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3 | 13       | 12.23         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 6        | 12.23         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H   | 4        | 12.23         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H   | 14       | 12.23         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2 | 2        | 12.23         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3 | 2        | 12.23         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2 | 3        | 12.23         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3 | 3        | 12.23         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 9        | 12.23         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 11       | 12.23         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 11       | 12.23         |
| (1,2272) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HB3 | 17       | 12.23         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 13       | 12.23         |
| (1,2243) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HD2 | 1        | 12.23         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 16       | 12.23         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 18       | 12.23         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 19       | 12.23         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 12       | 12.23         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 4        | 12.23         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 4        | 12.23         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 5        | 12.23         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 4        | 12.23         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 5        | 12.23         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 17       | 12.23         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 18       | 12.23         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 18       | 12.23         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H   | 20       | 12.23         |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H   | 20       | 12.23         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 6        | 12.23         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 6        | 12.23         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 14       | 12.22         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 14       | 12.22         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1 | 11       | 12.22         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2 | 11       | 12.22         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 16       | 12.22         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 3        | 12.22         |
| (1,4656) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HB3 | 14       | 12.22         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2 | 4        | 12.22         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3 | 4        | 12.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 4        | 12.22         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 4        | 12.22         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 17       | 12.22         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 17       | 12.22         |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 5        | 12.22         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 10       | 12.22         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 10       | 12.22         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 11       | 12.22         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2  | 10       | 12.22         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 10       | 12.22         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 5        | 12.22         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 5        | 12.22         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 5        | 12.22         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 5        | 12.22         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA   | 3        | 12.22         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 15       | 12.22         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 3        | 12.22         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 3        | 12.22         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 2        | 12.22         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 2        | 12.22         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 4        | 12.22         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 4        | 12.22         |
| (1,2692) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HG2  | 10       | 12.22         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 2        | 12.22         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 3        | 12.22         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 4        | 12.22         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 6        | 12.22         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3  | 16       | 12.22         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 2        | 12.22         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H    | 6        | 12.22         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 1        | 12.22         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 1        | 12.22         |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3  | 3        | 12.22         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 4        | 12.22         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 4        | 12.22         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 20       | 12.22         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 1        | 12.22         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 1        | 12.22         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 6        | 12.22         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 6        | 12.22         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 9        | 12.22         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 8        | 12.22         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA2 | 11       | 12.22         |
| (1,1775) | 1:A:6:GLN:HG3  | 1:A:29:GLY:HA3 | 11       | 12.22         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 6        | 12.22         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 13       | 12.22         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 13       | 12.22         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 16       | 12.22         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 16       | 12.22         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 17       | 12.22         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 2        | 12.22         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 5        | 12.22         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 16       | 12.22         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 16       | 12.22         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB2 | 2        | 12.22         |
| (1,1358) | 1:A:4:ASN:HD22 | 1:A:22:GLN:HB3 | 2        | 12.22         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 14       | 12.22         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 1        | 12.22         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 1        | 12.22         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2 | 12       | 12.22         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3 | 12       | 12.22         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3 | 4        | 12.22         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3 | 12       | 12.22         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 14       | 12.22         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 12       | 12.21         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 9        | 12.21         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H   | 16       | 12.21         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 1        | 12.21         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA  | 17       | 12.21         |
| (1,582)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB2 | 10       | 12.21         |
| (1,582)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB2 | 10       | 12.21         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2 | 7        | 12.21         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3 | 7        | 12.21         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2 | 7        | 12.21         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3 | 7        | 12.21         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 3        | 12.21         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 3        | 12.21         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3 | 15       | 12.21         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2 | 5        | 12.21         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2 | 5        | 12.21         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3 | 5        | 12.21         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3 | 5        | 12.21         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H   | 5        | 12.21         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H   | 17       | 12.21         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 16       | 12.21         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 16       | 12.21         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2 | 2        | 12.21         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3 | 2        | 12.21         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 16       | 12.21         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 13       | 12.21         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 13       | 12.21         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 14       | 12.21         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 14       | 12.21         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3 | 17       | 12.21         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2 | 17       | 12.21         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1 | 12       | 12.21         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2 | 12       | 12.21         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3 | 12       | 12.21         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H   | 17       | 12.21         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB2 | 17       | 12.21         |
| (1,2621) | 1:A:11:TRP:HA  | 1:A:22:GLN:HB3 | 17       | 12.21         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H   | 5        | 12.21         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1 | 2        | 12.21         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2 | 2        | 12.21         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE  | 17       | 12.21         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE  | 17       | 12.21         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 1        | 12.21         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 9        | 12.21         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1 | 2        | 12.21         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2 | 2        | 12.21         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 7        | 12.21         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 19       | 12.21         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 19       | 12.21         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 14       | 12.21         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 14       | 12.21         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 14       | 12.21         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 10       | 12.21         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 17       | 12.21         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 9        | 12.21         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA  | 1        | 12.21         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB2 | 19       | 12.21         |
| (1,1369) | 1:A:4:ASN:HD22 | 1:A:28:SER:HB3 | 19       | 12.21         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 4        | 12.21         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 13       | 12.2          |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 13       | 12.2          |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 17       | 12.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 17       | 12.2          |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD1  | 15       | 12.2          |
| (1,861)  | 1:A:3:PRO:HB3  | 1:A:23:TYR:HD2  | 15       | 12.2          |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 18       | 12.2          |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 9        | 12.2          |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 2        | 12.2          |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2  | 2        | 12.2          |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2  | 2        | 12.2          |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 17       | 12.2          |
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H    | 5        | 12.2          |
| (1,3734) | 1:A:18:LEU:HG  | 1:A:23:TYR:HA   | 14       | 12.2          |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 18       | 12.2          |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 18       | 12.2          |
| (1,3564) | 1:A:17:GLY:H   | 1:A:24:GLY:H    | 14       | 12.2          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 13       | 12.2          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 13       | 12.2          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 13       | 12.2          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 13       | 12.2          |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 6        | 12.2          |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG2  | 12       | 12.2          |
| (1,3287) | 1:A:15:ARG:HA  | 1:A:31:LYS:HG3  | 12       | 12.2          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 5        | 12.2          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 5        | 12.2          |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 1        | 12.2          |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 1        | 12.2          |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 5        | 12.2          |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 5        | 12.2          |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 6        | 12.2          |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 6        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 2        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 2        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 3        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 3        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 4        | 12.2          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 4        | 12.2          |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 15       | 12.2          |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 2        | 12.2          |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 7        | 12.2          |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 11       | 12.2          |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 20       | 12.2          |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 5        | 12.2          |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1  | 4        | 12.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2  | 4        | 12.2          |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 7        | 12.2          |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 1        | 12.2          |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 1        | 12.2          |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1  | 4        | 12.2          |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2  | 4        | 12.2          |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 15       | 12.2          |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 18       | 12.2          |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 18       | 12.2          |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 15       | 12.2          |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 13       | 12.2          |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 9        | 12.2          |
| (1,1335) | 1:A:4:ASN:HD22 | 1:A:14:CYS:H    | 14       | 12.2          |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 16       | 12.2          |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 18       | 12.2          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 4        | 12.2          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 4        | 12.2          |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 3        | 12.2          |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 2        | 12.19         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 2        | 12.19         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 5        | 12.19         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 5        | 12.19         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 19       | 12.19         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1  | 17       | 12.19         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2  | 17       | 12.19         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 10       | 12.19         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 11       | 12.19         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 11       | 12.19         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA   | 16       | 12.19         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA   | 16       | 12.19         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 10       | 12.19         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 10       | 12.19         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1  | 15       | 12.19         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 15       | 12.19         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2  | 5        | 12.19         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3  | 5        | 12.19         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD1  | 16       | 12.19         |
| (1,3599) | 1:A:17:GLY:HA2 | 1:A:23:TYR:HD2  | 16       | 12.19         |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 19       | 12.19         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 20       | 12.19         |
| (1,3413) | 1:A:15:ARG:HD2 | 1:A:31:LYS:HA   | 1        | 12.19         |
| (1,3413) | 1:A:15:ARG:HD3 | 1:A:31:LYS:HA   | 1        | 12.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 17       | 12.19         |
| (1,3274) | 1:A:15:ARG:H   | 1:A:31:LYS:HG3  | 16       | 12.19         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE1  | 20       | 12.19         |
| (1,3158) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HE2  | 20       | 12.19         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 5        | 12.19         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 5        | 12.19         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 17       | 12.19         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 17       | 12.19         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 8        | 12.19         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 2        | 12.19         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 17       | 12.19         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 5        | 12.19         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 4        | 12.19         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 4        | 12.19         |
| (1,2595) | 1:A:11:TRP:H   | 1:A:22:GLN:HE22 | 19       | 12.19         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 11       | 12.19         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 11       | 12.19         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 9        | 12.19         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 5        | 12.19         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 18       | 12.19         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 7        | 12.19         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 20       | 12.19         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 14       | 12.19         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2  | 2        | 12.19         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3  | 2        | 12.19         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 5        | 12.19         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 5        | 12.19         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 5        | 12.19         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 17       | 12.19         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 17       | 12.19         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 7        | 12.19         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 19       | 12.19         |
| (1,1808) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HA   | 11       | 12.19         |
| (1,1694) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HE1  | 1        | 12.19         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 9        | 12.19         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 9        | 12.19         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 15       | 12.19         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 1        | 12.19         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 5        | 12.19         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 15       | 12.19         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 15       | 12.19         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 19       | 12.19         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1262) | 1:A:4:ASN:HD21  | 1:A:15:ARG:H    | 6        | 12.19         |
| (1,1161) | 1:A:4:ASN:HB2   | 1:A:28:SER:HB3  | 12       | 12.19         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA   | 11       | 12.19         |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA   | 5        | 12.18         |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA   | 5        | 12.18         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 12       | 12.18         |
| (1,792)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:H    | 5        | 12.18         |
| (1,584)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB3  | 10       | 12.18         |
| (1,584)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB3  | 10       | 12.18         |
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1  | 4        | 12.18         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 5        | 12.18         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 5        | 12.18         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 13       | 12.18         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H    | 6        | 12.18         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 7        | 12.18         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 7        | 12.18         |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 18       | 12.18         |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H    | 15       | 12.18         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 14       | 12.18         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 14       | 12.18         |
| (1,3446) | 1:A:15:ARG:HE   | 1:A:32:TYR:HA   | 20       | 12.18         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ1  | 6        | 12.18         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ2  | 6        | 12.18         |
| (1,3164) | 1:A:13:GLY:HA3  | 1:A:31:LYS:HZ3  | 6        | 12.18         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB2  | 1        | 12.18         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB3  | 1        | 12.18         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB2  | 15       | 12.18         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB3  | 15       | 12.18         |
| (1,2947) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:HA2  | 10       | 12.18         |
| (1,2947) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:HA3  | 10       | 12.18         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H    | 1        | 12.18         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H    | 12       | 12.18         |
| (1,2768) | 1:A:11:TRP:HD1  | 1:A:32:TYR:HA   | 4        | 12.18         |
| (1,2704) | 1:A:11:TRP:HB3  | 1:A:28:SER:H    | 19       | 12.18         |
| (1,2642) | 1:A:11:TRP:HB2  | 1:A:17:GLY:H    | 6        | 12.18         |
| (1,2549) | 1:A:10:GLY:HA3  | 1:A:23:TYR:H    | 3        | 12.18         |
| (1,2404) | 1:A:9:PRO:HG3   | 1:A:27:GLY:H    | 16       | 12.18         |
| (1,2404) | 1:A:9:PRO:HG3   | 1:A:27:GLY:H    | 19       | 12.18         |
| (1,2404) | 1:A:9:PRO:HG3   | 1:A:27:GLY:H    | 20       | 12.18         |
| (1,2262) | 1:A:9:PRO:HB3   | 1:A:21:SER:HG   | 16       | 12.18         |
| (1,2259) | 1:A:9:PRO:HB3   | 1:A:19:CYS:HA   | 7        | 12.18         |
| (1,2259) | 1:A:9:PRO:HB3   | 1:A:19:CYS:HA   | 16       | 12.18         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1814) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HA   | 16       | 12.18         |
| (1,1807) | 1:A:6:GLN:HE21  | 1:A:15:ARG:H    | 6        | 12.18         |
| (1,1749) | 1:A:6:GLN:HG3   | 1:A:15:ARG:HA   | 4        | 12.18         |
| (1,1749) | 1:A:6:GLN:HG3   | 1:A:15:ARG:HA   | 5        | 12.18         |
| (1,1691) | 1:A:6:GLN:HB3   | 1:A:35:HIS:HA   | 9        | 12.18         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB2  | 12       | 12.18         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB3  | 12       | 12.18         |
| (1,1582) | 1:A:6:GLN:HA    | 1:A:33:CYS:HB3  | 14       | 12.18         |
| (1,1576) | 1:A:6:GLN:HA    | 1:A:31:LYS:HB2  | 10       | 12.18         |
| (1,1501) | 1:A:5:GLY:HA3   | 1:A:35:HIS:HD2  | 3        | 12.18         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2  | 19       | 12.18         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3  | 19       | 12.18         |
| (1,1150) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HG3  | 13       | 12.18         |
| (1,1098) | 1:A:4:ASN:H     | 1:A:28:SER:HB3  | 5        | 12.18         |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA   | 10       | 12.17         |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA   | 10       | 12.17         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 11       | 12.17         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 15       | 12.17         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 1        | 12.17         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 8        | 12.17         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H    | 18       | 12.17         |
| (1,790)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:H    | 19       | 12.17         |
| (1,4586) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HA   | 5        | 12.17         |
| (1,4586) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HA   | 5        | 12.17         |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2  | 7        | 12.17         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 11       | 12.17         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 11       | 12.17         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 15       | 12.17         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 4        | 12.17         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 4        | 12.17         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD1  | 16       | 12.17         |
| (1,3627) | 1:A:17:GLY:HA3  | 1:A:23:TYR:HD2  | 16       | 12.17         |
| (1,3597) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG3  | 1        | 12.17         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 17       | 12.17         |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA   | 15       | 12.17         |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA   | 15       | 12.17         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 11       | 12.17         |
| (1,3319) | 1:A:15:ARG:HB2  | 1:A:35:HIS:H    | 4        | 12.17         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 17       | 12.17         |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2  | 16       | 12.17         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE1  | 14       | 12.17         |
| (1,3158) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HE2  | 14       | 12.17         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 14       | 12.17         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 14       | 12.17         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 9        | 12.17         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 16       | 12.17         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 19       | 12.17         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 13       | 12.17         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H    | 18       | 12.17         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 10       | 12.17         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 8        | 12.17         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 18       | 12.17         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 10       | 12.17         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 19       | 12.17         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 19       | 12.17         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 18       | 12.17         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 19       | 12.17         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 8        | 12.17         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 18       | 12.17         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 19       | 12.17         |
| (1,2244) | 1:A:9:PRO:HB2  | 1:A:35:HIS:HE1  | 9        | 12.17         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 15       | 12.17         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 8        | 12.17         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 5        | 12.17         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 5        | 12.17         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 5        | 12.17         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 8        | 12.17         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 6        | 12.17         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 15       | 12.17         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA   | 20       | 12.17         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 10       | 12.17         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 15       | 12.17         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 15       | 12.17         |
| (1,1525) | 1:A:6:GLN:H    | 1:A:22:GLN:HE22 | 7        | 12.17         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 9        | 12.17         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 18       | 12.17         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 18       | 12.17         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 11       | 12.17         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 11       | 12.17         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 7        | 12.17         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 14       | 12.17         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 3        | 12.17         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 16       | 12.17         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 1        | 12.17         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD1  | 1        | 12.16         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD2  | 1        | 12.16         |
| (1,849)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HE   | 17       | 12.16         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 8        | 12.16         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 8        | 12.16         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H    | 10       | 12.16         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2  | 17       | 12.16         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3  | 17       | 12.16         |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2  | 1        | 12.16         |
| (1,4740) | 1:A:28:SER:H    | 1:A:35:HIS:HE1  | 9        | 12.16         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 3        | 12.16         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 3        | 12.16         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 11       | 12.16         |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 3        | 12.16         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 6        | 12.16         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 6        | 12.16         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1  | 13       | 12.16         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2  | 13       | 12.16         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3  | 13       | 12.16         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 12.16         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 12.16         |
| (1,3083) | 1:A:12:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 12.16         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB2  | 11       | 12.16         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB3  | 11       | 12.16         |
| (1,2849) | 1:A:11:TRP:HE1  | 1:A:19:CYS:H    | 1        | 12.16         |
| (1,2849) | 1:A:11:TRP:HE1  | 1:A:19:CYS:H    | 15       | 12.16         |
| (1,2849) | 1:A:11:TRP:HE1  | 1:A:19:CYS:H    | 18       | 12.16         |
| (1,2849) | 1:A:11:TRP:HE1  | 1:A:19:CYS:H    | 20       | 12.16         |
| (1,2692) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HG2  | 15       | 12.16         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE21 | 6        | 12.16         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE22 | 6        | 12.16         |
| (1,2381) | 1:A:9:PRO:HG3   | 1:A:19:CYS:H    | 2        | 12.16         |
| (1,2264) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HB3  | 10       | 12.16         |
| (1,2160) | 1:A:9:PRO:HA    | 1:A:22:GLN:H    | 13       | 12.16         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2  | 9        | 12.16         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3  | 9        | 12.16         |
| (1,2035) | 1:A:8:GLY:H     | 1:A:17:GLY:HA2  | 2        | 12.16         |
| (1,2035) | 1:A:8:GLY:H     | 1:A:17:GLY:HA2  | 6        | 12.16         |
| (1,2035) | 1:A:8:GLY:H     | 1:A:17:GLY:HA2  | 10       | 12.16         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ1  | 11       | 12.16         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ2  | 11       | 12.16         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ3  | 11       | 12.16         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1966) | 1:A:7:CYS:H     | 1:A:31:LYS:HE2 | 20       | 12.16         |
| (1,1966) | 1:A:7:CYS:H     | 1:A:31:LYS:HE3 | 20       | 12.16         |
| (1,1965) | 1:A:7:CYS:H     | 1:A:31:LYS:HG2 | 3        | 12.16         |
| (1,1965) | 1:A:7:CYS:H     | 1:A:31:LYS:HG3 | 3        | 12.16         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB2 | 17       | 12.16         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB3 | 17       | 12.16         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB2 | 1        | 12.16         |
| (1,1686) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HB3 | 1        | 12.16         |
| (1,1634) | 1:A:6:GLN:HB3   | 1:A:16:GLY:H   | 13       | 12.16         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2 | 7        | 12.16         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3 | 7        | 12.16         |
| (1,1269) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HA  | 11       | 12.16         |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE  | 16       | 12.16         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA  | 12       | 12.16         |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE  | 17       | 12.16         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD1 | 3        | 12.16         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD2 | 3        | 12.16         |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA  | 13       | 12.15         |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA  | 13       | 12.15         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD1 | 8        | 12.15         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD2 | 8        | 12.15         |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H   | 17       | 12.15         |
| (1,593)  | 1:A:1:SER:HB2   | 1:A:35:HIS:HD2 | 1        | 12.15         |
| (1,593)  | 1:A:1:SER:HB3   | 1:A:35:HIS:HD2 | 1        | 12.15         |
| (1,584)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB3 | 19       | 12.15         |
| (1,584)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB3 | 19       | 12.15         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1 | 5        | 12.15         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1 | 5        | 12.15         |
| (1,4601) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HA  | 7        | 12.15         |
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA  | 7        | 12.15         |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 15       | 12.15         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 13       | 12.15         |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 8        | 12.15         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 4        | 12.15         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2 | 15       | 12.15         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3 | 15       | 12.15         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA  | 14       | 12.15         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA  | 18       | 12.15         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA  | 19       | 12.15         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3 | 4        | 12.15         |
| (1,3057) | 1:A:12:GLY:HA3  | 1:A:22:GLN:H   | 14       | 12.15         |
| (1,2838) | 1:A:11:TRP:HE1  | 1:A:15:ARG:H   | 17       | 12.15         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2 | 17       | 12.15         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3 | 17       | 12.15         |
| (1,2704) | 1:A:11:TRP:HB3 | 1:A:28:SER:H   | 16       | 12.15         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 14       | 12.15         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 14       | 12.15         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 6        | 12.15         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 14       | 12.15         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 14       | 12.15         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 2        | 12.15         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG  | 20       | 12.15         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 7        | 12.15         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 1        | 12.15         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 11       | 12.15         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 4        | 12.15         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 17       | 12.15         |
| (1,1814) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HA  | 7        | 12.15         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 2        | 12.15         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 3        | 12.15         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3 | 20       | 12.15         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 12       | 12.15         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 15       | 12.14         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 15       | 12.14         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 11       | 12.14         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 12       | 12.14         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 13       | 12.14         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 15       | 12.14         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 3        | 12.14         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 3        | 12.14         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 2        | 12.14         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 2        | 12.14         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 13       | 12.14         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 13       | 12.14         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2 | 4        | 12.14         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2 | 4        | 12.14         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3 | 4        | 12.14         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3 | 4        | 12.14         |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 10       | 12.14         |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 10       | 12.14         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2 | 17       | 12.14         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3 | 17       | 12.14         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2 | 6        | 12.14         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3 | 6        | 12.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4258) | 1:A:22:GLN:HG3 | 1:A:29:GLY:H   | 2        | 12.14         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 5        | 12.14         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 6        | 12.14         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 17       | 12.14         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2 | 13       | 12.14         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3 | 13       | 12.14         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 11       | 12.14         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 11       | 12.14         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 11       | 12.14         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 11       | 12.14         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H   | 12       | 12.14         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 13       | 12.14         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 13       | 12.14         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 8        | 12.14         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 12       | 12.14         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H   | 7        | 12.14         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H   | 11       | 12.14         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2 | 13       | 12.14         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3 | 13       | 12.14         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 4        | 12.14         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 2        | 12.14         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 2        | 12.14         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H   | 5        | 12.14         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1 | 7        | 12.14         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 7        | 12.14         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1 | 16       | 12.14         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 16       | 12.14         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 14       | 12.14         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 18       | 12.14         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 19       | 12.14         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 20       | 12.14         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 20       | 12.14         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 3        | 12.14         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 20       | 12.14         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 20       | 12.14         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 19       | 12.14         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 8        | 12.14         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 8        | 12.14         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 11       | 12.14         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 11       | 12.14         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 13       | 12.14         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 17       | 12.14         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 2        | 12.13         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 2        | 12.13         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 13       | 12.13         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 13       | 12.13         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 1        | 12.13         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 18       | 12.13         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 7        | 12.13         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 7        | 12.13         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 5        | 12.13         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 5        | 12.13         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3  | 8        | 12.13         |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 20       | 12.13         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 19       | 12.13         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 14       | 12.13         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 2        | 12.13         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 2        | 12.13         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 4        | 12.13         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 18       | 12.13         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 4        | 12.13         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 4        | 12.13         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 18       | 12.13         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 19       | 12.13         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 7        | 12.13         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 18       | 12.13         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 19       | 12.13         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 9        | 12.13         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 9        | 12.13         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 18       | 12.13         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 18       | 12.13         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 19       | 12.13         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 19       | 12.13         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 3        | 12.13         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 3        | 12.13         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 3        | 12.13         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H    | 4        | 12.13         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 4        | 12.13         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 8        | 12.13         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 8        | 12.13         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 9        | 12.13         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 10       | 12.13         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 16       | 12.13         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 13       | 12.13         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2  | 19       | 12.13         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3  | 19       | 12.13         |
| (1,2035) | 1:A:8:GLY:H     | 1:A:17:GLY:HA2  | 14       | 12.13         |
| (1,1963) | 1:A:7:CYS:H     | 1:A:31:LYS:HA   | 7        | 12.13         |
| (1,1900) | 1:A:6:GLN:HE22  | 1:A:28:SER:H    | 20       | 12.13         |
| (1,1892) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HA   | 9        | 12.13         |
| (1,1892) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HA   | 11       | 12.13         |
| (1,1827) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HG2  | 5        | 12.13         |
| (1,1809) | 1:A:6:GLN:HE21  | 1:A:15:ARG:HB2  | 18       | 12.13         |
| (1,1603) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HE22 | 11       | 12.13         |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2  | 19       | 12.13         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB2  | 14       | 12.13         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB3  | 14       | 12.13         |
| (1,1368) | 1:A:4:ASN:HD22  | 1:A:28:SER:H    | 2        | 12.13         |
| (1,1368) | 1:A:4:ASN:HD22  | 1:A:28:SER:H    | 6        | 12.13         |
| (1,1185) | 1:A:4:ASN:HB3   | 1:A:9:PRO:HA    | 20       | 12.13         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA   | 9        | 12.13         |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA   | 1        | 12.12         |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA   | 1        | 12.12         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD1  | 15       | 12.12         |
| (1,875)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HD2  | 15       | 12.12         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 15       | 12.12         |
| (1,787)  | 1:A:3:PRO:HB2   | 1:A:16:GLY:HA3  | 16       | 12.12         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3  | 6        | 12.12         |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1  | 9        | 12.12         |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2  | 7        | 12.12         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2  | 14       | 12.12         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3  | 14       | 12.12         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2  | 14       | 12.12         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3  | 14       | 12.12         |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1  | 13       | 12.12         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 8        | 12.12         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 8        | 12.12         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 8        | 12.12         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 4        | 12.12         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 4        | 12.12         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 4        | 12.12         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 5        | 12.12         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 5        | 12.12         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 6        | 12.12         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 6        | 12.12         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 3        | 12.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2  | 4        | 12.12         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 18       | 12.12         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 1        | 12.12         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 11       | 12.12         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 11       | 12.12         |
| (1,3448) | 1:A:15:ARG:HE  | 1:A:34:ALA:H    | 9        | 12.12         |
| (1,3410) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HB3  | 19       | 12.12         |
| (1,3410) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HB3  | 19       | 12.12         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 19       | 12.12         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 19       | 12.12         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 19       | 12.12         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 19       | 12.12         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 11       | 12.12         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 7        | 12.12         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 7        | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 4        | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 4        | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 11       | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 11       | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 15       | 12.12         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 15       | 12.12         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 6        | 12.12         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 13       | 12.12         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 11       | 12.12         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 16       | 12.12         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 19       | 12.12         |
| (1,2774) | 1:A:11:TRP:HD1 | 1:A:35:HIS:HB2  | 1        | 12.12         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 3        | 12.12         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 7        | 12.12         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 16       | 12.12         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 2        | 12.12         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 16       | 12.12         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 20       | 12.12         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 15       | 12.12         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 15       | 12.12         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 20       | 12.12         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 20       | 12.12         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 12       | 12.12         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 5        | 12.12         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 15       | 12.12         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 15       | 12.12         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2  | 3        | 12.12         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 5        | 12.12         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 10       | 12.12         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 16       | 12.12         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 17       | 12.12         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 16       | 12.12         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 12       | 12.12         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 2        | 12.12         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 10       | 12.12         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 14       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 7        | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 7        | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 16       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 16       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 18       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 18       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 19       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 19       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2 | 20       | 12.12         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3 | 20       | 12.12         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 19       | 12.12         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 5        | 12.12         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 5        | 12.12         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 5        | 12.12         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2 | 6        | 12.12         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 14       | 12.12         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 14       | 12.12         |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 3        | 12.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2  | 3        | 12.12         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3  | 3        | 12.12         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 6        | 12.12         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 6        | 12.12         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 10       | 12.12         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 10       | 12.12         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 1        | 12.12         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 6        | 12.12         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 6        | 12.12         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1 | 12       | 12.12         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2 | 12       | 12.12         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1 | 10       | 12.11         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2 | 10       | 12.11         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 8        | 12.11         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H   | 20       | 12.11         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H   | 20       | 12.11         |
| (1,4601) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HA  | 10       | 12.11         |
| (1,4601) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HA  | 10       | 12.11         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2 | 9        | 12.11         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3 | 9        | 12.11         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2 | 9        | 12.11         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3 | 9        | 12.11         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2 | 7        | 12.11         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2 | 7        | 12.11         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3 | 7        | 12.11         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3 | 7        | 12.11         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 15       | 12.11         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 15       | 12.11         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 15       | 12.11         |
| (1,3539) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HB2 | 3        | 12.11         |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H   | 6        | 12.11         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H   | 14       | 12.11         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H   | 14       | 12.11         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 3        | 12.11         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 3        | 12.11         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1 | 15       | 12.11         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2 | 15       | 12.11         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE1 | 10       | 12.11         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE2 | 10       | 12.11         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3 | 13       | 12.11         |
| (1,2918) | 1:A:11:TRP:HZ3  | 1:A:27:GLY:H   | 8        | 12.11         |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG  | 6        | 12.11         |
| (1,2787) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HA  | 9        | 12.11         |
| (1,2787) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HA  | 20       | 12.11         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB1 | 14       | 12.11         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB2 | 14       | 12.11         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB3 | 14       | 12.11         |
| (1,2734) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HG  | 10       | 12.11         |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H   | 12       | 12.11         |
| (1,2543) | 1:A:10:GLY:HA3  | 1:A:21:SER:HG  | 8        | 12.11         |
| (1,2543) | 1:A:10:GLY:HA3  | 1:A:21:SER:HG  | 12       | 12.11         |
| (1,2290) | 1:A:9:PRO:HB3   | 1:A:35:HIS:HD2 | 6        | 12.11         |
| (1,2264) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HB3 | 3        | 12.11         |
| (1,2264) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HB3 | 12       | 12.11         |
| (1,2262) | 1:A:9:PRO:HB3   | 1:A:21:SER:HG  | 12       | 12.11         |
| (1,2213) | 1:A:9:PRO:HB2   | 1:A:22:GLN:H   | 2        | 12.11         |
| (1,2160) | 1:A:9:PRO:HA    | 1:A:22:GLN:H   | 8        | 12.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 20       | 12.11         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 2        | 12.11         |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H    | 3        | 12.11         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 9        | 12.11         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 10       | 12.11         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 10       | 12.11         |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H    | 18       | 12.11         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 5        | 12.11         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 7        | 12.11         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 5        | 12.11         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB2  | 9        | 12.11         |
| (1,1686) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HB3  | 9        | 12.11         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 3        | 12.11         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 3        | 12.11         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 8        | 12.11         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 8        | 12.11         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 8        | 12.11         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 8        | 12.11         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2  | 15       | 12.11         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 5        | 12.11         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 8        | 12.11         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 8        | 12.11         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA    | 1        | 12.11         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 1        | 12.11         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 15       | 12.11         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 5        | 12.1          |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 5        | 12.1          |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 19       | 12.1          |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 19       | 12.1          |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 4        | 12.1          |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 4        | 12.1          |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 7        | 12.1          |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 7        | 12.1          |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 7        | 12.1          |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 13       | 12.1          |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 14       | 12.1          |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 8        | 12.1          |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 13       | 12.1          |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 14       | 12.1          |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2  | 4        | 12.1          |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2  | 4        | 12.1          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1  | 10       | 12.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 10       | 12.1          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1 | 10       | 12.1          |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2 | 9        | 12.1          |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA  | 17       | 12.1          |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG  | 13       | 12.1          |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2 | 15       | 12.1          |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 3        | 12.1          |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 4        | 12.1          |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 5        | 12.1          |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 5        | 12.1          |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2 | 7        | 12.1          |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3 | 7        | 12.1          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 4        | 12.1          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 4        | 12.1          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 4        | 12.1          |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 7        | 12.1          |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 8        | 12.1          |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 10       | 12.1          |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 10       | 12.1          |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 9        | 12.1          |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 18       | 12.1          |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 19       | 12.1          |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 20       | 12.1          |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG  | 9        | 12.1          |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2 | 14       | 12.1          |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3 | 14       | 12.1          |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 11       | 12.1          |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3 | 9        | 12.1          |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3 | 11       | 12.1          |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 4        | 12.1          |
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 6        | 12.1          |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 20       | 12.1          |
| (1,2136) | 1:A:8:GLY:HA3  | 1:A:33:CYS:HB3 | 17       | 12.1          |
| (1,1900) | 1:A:6:GLN:HE22 | 1:A:28:SER:H   | 19       | 12.1          |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 10       | 12.1          |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 10       | 12.1          |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 17       | 12.1          |
| (1,1691) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HA  | 11       | 12.1          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 4        | 12.1          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 4        | 12.1          |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 13       | 12.1          |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 1        | 12.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 10       | 12.1          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 10       | 12.1          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 10       | 12.1          |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 8        | 12.1          |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 8        | 12.1          |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 9        | 12.1          |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 9        | 12.1          |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 8        | 12.09         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 7        | 12.09         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 9        | 12.09         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 2        | 12.09         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 11       | 12.09         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 11       | 12.09         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 18       | 12.09         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 18       | 12.09         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE21 | 19       | 12.09         |
| (1,524)  | 1:A:1:SER:HA   | 1:A:22:GLN:HE22 | 19       | 12.09         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 1        | 12.09         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 18       | 12.09         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2  | 16       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 5        | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 5        | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 18       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 18       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 19       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 19       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 20       | 12.09         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 20       | 12.09         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 12       | 12.09         |
| (1,4258) | 1:A:22:GLN:HG3 | 1:A:29:GLY:H    | 11       | 12.09         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 1        | 12.09         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 6        | 12.09         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 15       | 12.09         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 14       | 12.09         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 5        | 12.09         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 2        | 12.09         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 2        | 12.09         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG   | 6        | 12.09         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG   | 6        | 12.09         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 1        | 12.09         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 7        | 12.09         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 18       | 12.09         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 19       | 12.09         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 20       | 12.09         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 1        | 12.09         |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 13       | 12.09         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 14       | 12.09         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 3        | 12.09         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 3        | 12.09         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 14       | 12.09         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 13       | 12.09         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 12       | 12.09         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 15       | 12.09         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 4        | 12.09         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 11       | 12.09         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 12       | 12.09         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 18       | 12.09         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 19       | 12.09         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 15       | 12.09         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 1        | 12.09         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 4        | 12.09         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 17       | 12.09         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 17       | 12.09         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 17       | 12.09         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 4        | 12.09         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 2        | 12.09         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 2        | 12.09         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 4        | 12.09         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 4        | 12.09         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 8        | 12.09         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 13       | 12.09         |
| (1,1082) | 1:A:4:ASN:H    | 1:A:22:GLN:HG3  | 16       | 12.09         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 6        | 12.09         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 6        | 12.09         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 11       | 12.09         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 11       | 12.09         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 14       | 12.08         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 14       | 12.08         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 1        | 12.08         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 1        | 12.08         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 17       | 12.08         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 1        | 12.08         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 20       | 12.08         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 15       | 12.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 11       | 12.08         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 13       | 12.08         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 5        | 12.08         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 11       | 12.08         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 20       | 12.08         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 20       | 12.08         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 20       | 12.08         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 20       | 12.08         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 20       | 12.08         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 20       | 12.08         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 13       | 12.08         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 13       | 12.08         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 13       | 12.08         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 13       | 12.08         |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1  | 15       | 12.08         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 18       | 12.08         |
| (1,4667) | 1:A:26:CYS:HB2 | 1:A:35:HIS:HE1  | 9        | 12.08         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 11       | 12.08         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 1        | 12.08         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 1        | 12.08         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 1        | 12.08         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 1        | 12.08         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 14       | 12.08         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 14       | 12.08         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 14       | 12.08         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 14       | 12.08         |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 8        | 12.08         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 7        | 12.08         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 7        | 12.08         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2  | 16       | 12.08         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3  | 16       | 12.08         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2  | 12       | 12.08         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 5        | 12.08         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 5        | 12.08         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 11       | 12.08         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 15       | 12.08         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 15       | 12.08         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 15       | 12.08         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 7        | 12.08         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 18       | 12.08         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 19       | 12.08         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 5        | 12.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 10       | 12.08         |
| (1,3400) | 1:A:15:ARG:HD2 | 1:A:22:GLN:H    | 15       | 12.08         |
| (1,3400) | 1:A:15:ARG:HD3 | 1:A:22:GLN:H    | 15       | 12.08         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 7        | 12.08         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 7        | 12.08         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 6        | 12.08         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 6        | 12.08         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 9        | 12.08         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 15       | 12.08         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 14       | 12.08         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 1        | 12.08         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 1        | 12.08         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 6        | 12.08         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 6        | 12.08         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 10       | 12.08         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 10       | 12.08         |
| (1,2414) | 1:A:9:PRO:HG3  | 1:A:33:CYS:HA   | 17       | 12.08         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 5        | 12.08         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 1        | 12.08         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 14       | 12.08         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 15       | 12.08         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 8        | 12.08         |
| (1,1693) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HD2  | 3        | 12.08         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1  | 4        | 12.08         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2  | 4        | 12.08         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3  | 4        | 12.08         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 3        | 12.08         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 6        | 12.08         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 3        | 12.08         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 3        | 12.08         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 7        | 12.08         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 7        | 12.08         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA    | 9        | 12.08         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 10       | 12.08         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 10       | 12.08         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 19       | 12.08         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 15       | 12.08         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 2        | 12.08         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 13       | 12.08         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 11       | 12.08         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 3        | 12.07         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 3        | 12.07         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 7        | 12.07         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 7        | 12.07         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 18       | 12.07         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3  | 17       | 12.07         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 1        | 12.07         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 7        | 12.07         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 7        | 12.07         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 7        | 12.07         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1  | 20       | 12.07         |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2  | 10       | 12.07         |
| (1,3981) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HE1  | 8        | 12.07         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 6        | 12.07         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 16       | 12.07         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 12       | 12.07         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 16       | 12.07         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 2        | 12.07         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 14       | 12.07         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 1        | 12.07         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 1        | 12.07         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 16       | 12.07         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 16       | 12.07         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 6        | 12.07         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 5        | 12.07         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 5        | 12.07         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 6        | 12.07         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 6        | 12.07         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H    | 16       | 12.07         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3  | 12       | 12.07         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 16       | 12.07         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 18       | 12.07         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 18       | 12.07         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 1        | 12.07         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 1        | 12.07         |
| (1,2787) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HA   | 7        | 12.07         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 9        | 12.07         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 9        | 12.07         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 13       | 12.07         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 3        | 12.07         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 3        | 12.07         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 5        | 12.07         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 5        | 12.07         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 2        | 12.07         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 2        | 12.07         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 8        | 12.07         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 8        | 12.07         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 9        | 12.07         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 9        | 12.07         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 15       | 12.07         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 6        | 12.07         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 11       | 12.07         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 4        | 12.07         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 4        | 12.07         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 9        | 12.07         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 12       | 12.07         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 12       | 12.07         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 3        | 12.07         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 17       | 12.07         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 18       | 12.07         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 10       | 12.07         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 10       | 12.07         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 5        | 12.07         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 4        | 12.07         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 4        | 12.07         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 5        | 12.07         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 5        | 12.07         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 10       | 12.07         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 14       | 12.07         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 14       | 12.07         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 15       | 12.06         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 16       | 12.06         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 15       | 12.06         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 15       | 12.06         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 12       | 12.06         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H    | 15       | 12.06         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3  | 10       | 12.06         |
| (1,663)  | 1:A:2:GLY:H    | 1:A:32:TYR:HA   | 2        | 12.06         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3  | 5        | 12.06         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3  | 5        | 12.06         |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H    | 8        | 12.06         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 4        | 12.06         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 4        | 12.06         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 14       | 12.06         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 14       | 12.06         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 7        | 12.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 20       | 12.06         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 2        | 12.06         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 5        | 12.06         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 12       | 12.06         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 10       | 12.06         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 10       | 12.06         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 15       | 12.06         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 2        | 12.06         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 2        | 12.06         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 2        | 12.06         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 12       | 12.06         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 12       | 12.06         |
| (1,2918) | 1:A:11:TRP:HZ3 | 1:A:27:GLY:H    | 7        | 12.06         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 11       | 12.06         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 12       | 12.06         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 12       | 12.06         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 8        | 12.06         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 8        | 12.06         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 8        | 12.06         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA   | 13       | 12.06         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 12       | 12.06         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 8        | 12.06         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 8        | 12.06         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 8        | 12.06         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H    | 20       | 12.06         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 9        | 12.06         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 15       | 12.06         |
| (1,2410) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HA   | 17       | 12.06         |
| (1,2264) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HB3  | 11       | 12.06         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 7        | 12.06         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1  | 8        | 12.06         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2  | 8        | 12.06         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3  | 8        | 12.06         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 15       | 12.06         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 8        | 12.06         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA   | 3        | 12.06         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 14       | 12.06         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 13       | 12.06         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 13       | 12.06         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H    | 1        | 12.06         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 6        | 12.06         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2  | 11       | 12.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 11       | 12.06         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 12.06         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 12.06         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 9        | 12.06         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 9        | 12.06         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 10       | 12.06         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 15       | 12.06         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 14       | 12.06         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 14       | 12.06         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 13       | 12.06         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 13       | 12.06         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 14       | 12.06         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 9        | 12.06         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE2  | 18       | 12.06         |
| (1,1106) | 1:A:4:ASN:H    | 1:A:31:LYS:HE3  | 18       | 12.06         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 13       | 12.06         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 5        | 12.06         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 1        | 12.06         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 1        | 12.06         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 11       | 12.05         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 11       | 12.05         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1  | 10       | 12.05         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2  | 10       | 12.05         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 19       | 12.05         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 20       | 12.05         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1  | 13       | 12.05         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 2        | 12.05         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 2        | 12.05         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 8        | 12.05         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 8        | 12.05         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 8        | 12.05         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 8        | 12.05         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 11       | 12.05         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 11       | 12.05         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 11       | 12.05         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 11       | 12.05         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 11       | 12.05         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 11       | 12.05         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 12       | 12.05         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 12       | 12.05         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 7        | 12.05         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 7        | 12.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA  | 11       | 12.05         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 10       | 12.05         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3 | 14       | 12.05         |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2 | 6        | 12.05         |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2 | 6        | 12.05         |
| (1,3332) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HB2 | 13       | 12.05         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 7        | 12.05         |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2 | 6        | 12.05         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 20       | 12.05         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 20       | 12.05         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 9        | 12.05         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 8        | 12.05         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 8        | 12.05         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 7        | 12.05         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 7        | 12.05         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2 | 15       | 12.05         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3 | 15       | 12.05         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 12       | 12.05         |
| (1,2610) | 1:A:11:TRP:H   | 1:A:32:TYR:HB3 | 17       | 12.05         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG  | 14       | 12.05         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3 | 4        | 12.05         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3 | 4        | 12.05         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 6        | 12.05         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2 | 14       | 12.05         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3 | 14       | 12.05         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 12       | 12.05         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 11       | 12.05         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 4        | 12.05         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 3        | 12.05         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 19       | 12.05         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 19       | 12.05         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 11       | 12.05         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 12       | 12.05         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 17       | 12.05         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 17       | 12.05         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 17       | 12.05         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2 | 19       | 12.05         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3 | 19       | 12.05         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H   | 8        | 12.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 2        | 12.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 2        | 12.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 2        | 12.05         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 14       | 12.05         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 4        | 12.04         |
| (1,790)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:H    | 9        | 12.04         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 19       | 12.04         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 3        | 12.04         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 20       | 12.04         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3  | 3        | 12.04         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 9        | 12.04         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 9        | 12.04         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 9        | 12.04         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 9        | 12.04         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 1        | 12.04         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 1        | 12.04         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 2        | 12.04         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 2        | 12.04         |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3  | 15       | 12.04         |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3  | 15       | 12.04         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 10       | 12.04         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2  | 2        | 12.04         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 9        | 12.04         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 4        | 12.04         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 4        | 12.04         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 4        | 12.04         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 4        | 12.04         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 9        | 12.04         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 9        | 12.04         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 14       | 12.04         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 14       | 12.04         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 10       | 12.04         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 10       | 12.04         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3  | 18       | 12.04         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 3        | 12.04         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 3        | 12.04         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 20       | 12.04         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 20       | 12.04         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 3        | 12.04         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 13       | 12.04         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 13       | 12.04         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 6        | 12.04         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 6        | 12.04         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 12       | 12.04         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 12       | 12.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 14       | 12.04         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 14       | 12.04         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 4        | 12.04         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 4        | 12.04         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 5        | 12.04         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 5        | 12.04         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 10       | 12.04         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 10       | 12.04         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 8        | 12.04         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 4        | 12.04         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3 | 14       | 12.04         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3 | 14       | 12.04         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 11       | 12.04         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 7        | 12.04         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 7        | 12.04         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2 | 1        | 12.04         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3 | 1        | 12.04         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 1        | 12.04         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 14       | 12.04         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 1        | 12.04         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 12       | 12.04         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 13       | 12.04         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 20       | 12.04         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 17       | 12.04         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 4        | 12.04         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 2        | 12.04         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 12       | 12.04         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 12       | 12.04         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 13       | 12.04         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 13       | 12.04         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 16       | 12.04         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3 | 10       | 12.04         |
| (1,1279) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HG2 | 3        | 12.04         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA  | 15       | 12.04         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 12       | 12.04         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 2        | 12.04         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 2        | 12.04         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 15       | 12.04         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 7        | 12.04         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 20       | 12.04         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 3        | 12.03         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3  | 4        | 12.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 17       | 12.03         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 17       | 12.03         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 4        | 12.03         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 4        | 12.03         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 9        | 12.03         |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H    | 8        | 12.03         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 7        | 12.03         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 11       | 12.03         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 4        | 12.03         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 4        | 12.03         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 15       | 12.03         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 15       | 12.03         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 15       | 12.03         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 15       | 12.03         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2  | 13       | 12.03         |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3  | 13       | 12.03         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2  | 13       | 12.03         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2  | 1        | 12.03         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 17       | 12.03         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 17       | 12.03         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG   | 8        | 12.03         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 1        | 12.03         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 1        | 12.03         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD1  | 13       | 12.03         |
| (1,3333) | 1:A:15:ARG:HB3 | 1:A:23:TYR:HD2  | 13       | 12.03         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 20       | 12.03         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 20       | 12.03         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 7        | 12.03         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 8        | 12.03         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 2        | 12.03         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 4        | 12.03         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 11       | 12.03         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 11       | 12.03         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 15       | 12.03         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 15       | 12.03         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 15       | 12.03         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 7        | 12.03         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 7        | 12.03         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 16       | 12.03         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 16       | 12.03         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 3        | 12.03         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 3        | 12.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 12       | 12.03         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 12       | 12.03         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 14       | 12.03         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 18       | 12.03         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG2  | 20       | 12.03         |
| (1,2067) | 1:A:8:GLY:H    | 1:A:31:LYS:HG3  | 20       | 12.03         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 18       | 12.03         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 19       | 12.03         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 20       | 12.03         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 13       | 12.03         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 9        | 12.03         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 9        | 12.03         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 10       | 12.03         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 18       | 12.03         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 16       | 12.03         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 16       | 12.03         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 15       | 12.03         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 4        | 12.03         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 4        | 12.03         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 14       | 12.03         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 16       | 12.03         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 10       | 12.03         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 13       | 12.03         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 13       | 12.03         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 15       | 12.03         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 15       | 12.03         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 14       | 12.02         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 14       | 12.02         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD1  | 2        | 12.02         |
| (1,875)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HD2  | 2        | 12.02         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 19       | 12.02         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 18       | 12.02         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 16       | 12.02         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 16       | 12.02         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 18       | 12.02         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 18       | 12.02         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 8        | 12.02         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 8        | 12.02         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 8        | 12.02         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 8        | 12.02         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3  | 3        | 12.02         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 13       | 12.02         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 15       | 12.02         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 9        | 12.02         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 9        | 12.02         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 9        | 12.02         |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 11       | 12.02         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3  | 14       | 12.02         |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H    | 17       | 12.02         |
| (1,3436) | 1:A:15:ARG:HE   | 1:A:29:GLY:HA3  | 1        | 12.02         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 12       | 12.02         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 12       | 12.02         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H    | 8        | 12.02         |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 17       | 12.02         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2  | 8        | 12.02         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3  | 8        | 12.02         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3  | 11       | 12.02         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB2  | 14       | 12.02         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB3  | 14       | 12.02         |
| (1,3033) | 1:A:12:GLY:H    | 1:A:32:TYR:HA   | 17       | 12.02         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H    | 10       | 12.02         |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG   | 5        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 2        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 2        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 3        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 3        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 9        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 9        | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 12       | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 12       | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 18       | 12.02         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 18       | 12.02         |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H    | 1        | 12.02         |
| (1,2662) | 1:A:11:TRP:HB2  | 1:A:28:SER:H    | 20       | 12.02         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG   | 3        | 12.02         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG   | 10       | 12.02         |
| (1,2543) | 1:A:10:GLY:HA3  | 1:A:21:SER:HG   | 11       | 12.02         |
| (1,2463) | 1:A:10:GLY:H    | 1:A:19:CYS:H    | 14       | 12.02         |
| (1,2411) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HD1  | 15       | 12.02         |
| (1,2411) | 1:A:9:PRO:HG3   | 1:A:32:TYR:HD2  | 15       | 12.02         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE1  | 13       | 12.02         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE2  | 13       | 12.02         |
| (1,2348) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HD1  | 6        | 12.02         |
| (1,2348) | 1:A:9:PRO:HG2   | 1:A:32:TYR:HD2  | 6        | 12.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 1        | 12.02         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 11       | 12.02         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 16       | 12.02         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 15       | 12.02         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 15       | 12.02         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 15       | 12.02         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 9        | 12.02         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 16       | 12.02         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA   | 6        | 12.02         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 4        | 12.02         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 4        | 12.02         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 5        | 12.02         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 10       | 12.02         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 2        | 12.02         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 2        | 12.02         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 10       | 12.02         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 10       | 12.02         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 18       | 12.02         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 13       | 12.02         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 13       | 12.02         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 13       | 12.02         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 13       | 12.02         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 2        | 12.02         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 10       | 12.02         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2  | 14       | 12.02         |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3  | 14       | 12.02         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 2        | 12.02         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 8        | 12.02         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 8        | 12.02         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 8        | 12.02         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 15       | 12.01         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 15       | 12.01         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 4        | 12.01         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 4        | 12.01         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA   | 16       | 12.01         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA   | 16       | 12.01         |
| (1,852)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:H    | 9        | 12.01         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 18       | 12.01         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 16       | 12.01         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE21 | 7        | 12.01         |
| (1,635)  | 1:A:2:GLY:H    | 1:A:22:GLN:HE22 | 7        | 12.01         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 20       | 12.01         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 20       | 12.01         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 20       | 12.01         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 20       | 12.01         |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1  | 10       | 12.01         |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1  | 10       | 12.01         |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1  | 14       | 12.01         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 12       | 12.01         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 12       | 12.01         |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1  | 3        | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 8        | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 8        | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 9        | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 9        | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 15       | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 15       | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG2  | 16       | 12.01         |
| (1,4470) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HG3  | 16       | 12.01         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 9        | 12.01         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 9        | 12.01         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 11       | 12.01         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 11       | 12.01         |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 4        | 12.01         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 19       | 12.01         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 19       | 12.01         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 19       | 12.01         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA   | 3        | 12.01         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 6        | 12.01         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA   | 6        | 12.01         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA   | 13       | 12.01         |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2  | 11       | 12.01         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 13       | 12.01         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3  | 12       | 12.01         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H    | 16       | 12.01         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB2  | 3        | 12.01         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB3  | 3        | 12.01         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB2  | 8        | 12.01         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB3  | 8        | 12.01         |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 3        | 12.01         |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 3        | 12.01         |
| (1,2744) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HG2  | 2        | 12.01         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 20       | 12.01         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 20       | 12.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 10       | 12.01         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 10       | 12.01         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 10       | 12.01         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 7        | 12.01         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 15       | 12.01         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 15       | 12.01         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 19       | 12.01         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 19       | 12.01         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 1        | 12.01         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 4        | 12.01         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 6        | 12.01         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 11       | 12.01         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 11       | 12.01         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 11       | 12.01         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 5        | 12.01         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 5        | 12.01         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H    | 3        | 12.01         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 7        | 12.01         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 7        | 12.01         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 2        | 12.01         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 3        | 12.01         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 3        | 12.01         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2  | 14       | 12.01         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3  | 14       | 12.01         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 1        | 12.01         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 7        | 12.01         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 16       | 12.01         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 11       | 12.01         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 13       | 12.01         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 20       | 12.01         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 12       | 12.01         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 12       | 12.01         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 5        | 12.01         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 17       | 12.01         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 3        | 12.0          |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 3        | 12.0          |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 11       | 12.0          |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 11       | 12.0          |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H    | 18       | 12.0          |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 14       | 12.0          |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 7        | 12.0          |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 12       | 12.0          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3 | 15       | 12.0          |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 16       | 12.0          |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 12       | 12.0          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2 | 15       | 12.0          |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2 | 1        | 12.0          |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2 | 1        | 12.0          |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3 | 1        | 12.0          |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3 | 1        | 12.0          |
| (1,4586) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HA  | 2        | 12.0          |
| (1,4586) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HA  | 2        | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2 | 18       | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3 | 18       | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2 | 19       | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3 | 19       | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG2 | 20       | 12.0          |
| (1,4470) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HG3 | 20       | 12.0          |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2 | 1        | 12.0          |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3 | 1        | 12.0          |
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H   | 12       | 12.0          |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1 | 4        | 12.0          |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3 | 18       | 12.0          |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 3        | 12.0          |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2 | 20       | 12.0          |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3 | 20       | 12.0          |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 17       | 12.0          |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2 | 10       | 12.0          |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 10       | 12.0          |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3 | 3        | 12.0          |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1 | 9        | 12.0          |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1 | 9        | 12.0          |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA  | 17       | 12.0          |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H   | 1        | 12.0          |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1 | 16       | 12.0          |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2 | 16       | 12.0          |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3 | 16       | 12.0          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 13       | 12.0          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 13       | 12.0          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 13       | 12.0          |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 18       | 12.0          |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 18       | 12.0          |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 5        | 12.0          |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 5        | 12.0          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 9        | 12.0          |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 9        | 12.0          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2 | 7        | 12.0          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3 | 7        | 12.0          |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 2        | 12.0          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 2        | 12.0          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 2        | 12.0          |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H   | 11       | 12.0          |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 1        | 12.0          |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 18       | 12.0          |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 19       | 12.0          |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 12       | 12.0          |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG  | 10       | 12.0          |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG  | 13       | 12.0          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 10       | 12.0          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 10       | 12.0          |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2 | 8        | 12.0          |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2 | 8        | 12.0          |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3 | 8        | 12.0          |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3 | 8        | 12.0          |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 3        | 12.0          |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 3        | 12.0          |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 9        | 12.0          |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 11       | 12.0          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 18       | 12.0          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 18       | 12.0          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 19       | 12.0          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 19       | 12.0          |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 8        | 12.0          |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 8        | 12.0          |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 10       | 12.0          |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 16       | 12.0          |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 18       | 12.0          |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 1        | 12.0          |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 11       | 12.0          |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1 | 7        | 12.0          |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2 | 7        | 12.0          |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 3        | 11.99         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 3        | 11.99         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 11       | 11.99         |
| (1,854)  | 1:A:3:PRO:HB3  | 1:A:19:CYS:H   | 19       | 11.99         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 13       | 11.99         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3 | 8        | 11.99         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H   | 20       | 11.99         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3 | 9        | 11.99         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 11       | 11.99         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 11       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2 | 19       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3 | 19       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2 | 19       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3 | 19       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2 | 20       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3 | 20       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2 | 20       | 11.99         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3 | 20       | 11.99         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2 | 15       | 11.99         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2 | 15       | 11.99         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3 | 15       | 11.99         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3 | 15       | 11.99         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2 | 3        | 11.99         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2 | 3        | 11.99         |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 4        | 11.99         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2 | 14       | 11.99         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3 | 14       | 11.99         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 9        | 11.99         |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 9        | 11.99         |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA  | 6        | 11.99         |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA  | 6        | 11.99         |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA  | 13       | 11.99         |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA  | 13       | 11.99         |
| (1,3366) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HA  | 11       | 11.99         |
| (1,3366) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HA  | 11       | 11.99         |
| (1,3354) | 1:A:15:ARG:HB3  | 1:A:34:ALA:HA  | 5        | 11.99         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE1 | 16       | 11.99         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE2 | 16       | 11.99         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE1 | 19       | 11.99         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE2 | 19       | 11.99         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB2 | 12       | 11.99         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB3 | 12       | 11.99         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB2 | 9        | 11.99         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB3 | 9        | 11.99         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2 | 18       | 11.99         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2 | 13       | 11.99         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3 | 13       | 11.99         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 8        | 11.99         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 8        | 11.99         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 9        | 11.99         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 9        | 11.99         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 15       | 11.99         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 4        | 11.99         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 4        | 11.99         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 18       | 11.99         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 19       | 11.99         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE21 | 11       | 11.99         |
| (1,2548) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HE22 | 11       | 11.99         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 2        | 11.99         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 3        | 11.99         |
| (1,2543) | 1:A:10:GLY:HA3 | 1:A:21:SER:HG   | 5        | 11.99         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 1        | 11.99         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 10       | 11.99         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 10       | 11.99         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 14       | 11.99         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 8        | 11.99         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 14       | 11.99         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 20       | 11.99         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 13       | 11.99         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 13       | 11.99         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 10       | 11.99         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 10       | 11.99         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 10       | 11.99         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 2        | 11.99         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 13       | 11.99         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA   | 15       | 11.99         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 8        | 11.99         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3  | 11       | 11.99         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 10       | 11.99         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 10       | 11.99         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 10       | 11.99         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 2        | 11.99         |
| (1,1430) | 1:A:5:GLY:H    | 1:A:22:GLN:HG3  | 3        | 11.99         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 17       | 11.99         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 17       | 11.99         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 11       | 11.99         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 11       | 11.99         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 10       | 11.99         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 11       | 11.99         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1098) | 1:A:4:ASN:H     | 1:A:28:SER:HB3  | 15       | 11.99         |
| (1,973)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HE1  | 4        | 11.98         |
| (1,973)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HE2  | 4        | 11.98         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3   | 3        | 11.98         |
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA   | 6        | 11.98         |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA   | 6        | 11.98         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2  | 6        | 11.98         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3  | 6        | 11.98         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2  | 6        | 11.98         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3  | 6        | 11.98         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1  | 9        | 11.98         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2  | 9        | 11.98         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H    | 20       | 11.98         |
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3  | 11       | 11.98         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H    | 8        | 11.98         |
| (1,584)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HB3  | 9        | 11.98         |
| (1,584)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HB3  | 9        | 11.98         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 6        | 11.98         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2  | 18       | 11.98         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3  | 18       | 11.98         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2  | 18       | 11.98         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3  | 18       | 11.98         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 6        | 11.98         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 6        | 11.98         |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 6        | 11.98         |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H    | 13       | 11.98         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 9        | 11.98         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 9        | 11.98         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H    | 13       | 11.98         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 7        | 11.98         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 7        | 11.98         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 7        | 11.98         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA   | 4        | 11.98         |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2  | 12       | 11.98         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2  | 3        | 11.98         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3  | 3        | 11.98         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG2  | 3        | 11.98         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG3  | 3        | 11.98         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 8        | 11.98         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 12       | 11.98         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 10       | 11.98         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H    | 3        | 11.98         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3 | 13       | 11.98         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1 | 13       | 11.98         |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2 | 13       | 11.98         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 16       | 11.98         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 16       | 11.98         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 19       | 11.98         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 8        | 11.98         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 8        | 11.98         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 7        | 11.98         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 7        | 11.98         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 8        | 11.98         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 16       | 11.98         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H   | 13       | 11.98         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 16       | 11.98         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 16       | 11.98         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 2        | 11.98         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 2        | 11.98         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 13       | 11.98         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 15       | 11.98         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2 | 1        | 11.98         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3 | 1        | 11.98         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2 | 10       | 11.98         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 4        | 11.98         |
| (1,1963) | 1:A:7:CYS:H    | 1:A:31:LYS:HA  | 8        | 11.98         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 12       | 11.98         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 4        | 11.98         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2 | 2        | 11.98         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3 | 2        | 11.98         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2 | 10       | 11.98         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3 | 10       | 11.98         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 1        | 11.98         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 1        | 11.98         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 7        | 11.98         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 7        | 11.98         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 14       | 11.98         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 3        | 11.98         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 3        | 11.98         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 3        | 11.98         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 16       | 11.98         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 7        | 11.98         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 7        | 11.98         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 9        | 11.98         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1539) | 1:A:6:GLN:H     | 1:A:31:LYS:HG3 | 9        | 11.98         |
| (1,1345) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HG  | 11       | 11.98         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB2  | 3        | 11.98         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB3  | 3        | 11.98         |
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB2 | 15       | 11.98         |
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB3 | 15       | 11.98         |
| (1,1263) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HA  | 15       | 11.98         |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ1 | 5        | 11.98         |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ2 | 5        | 11.98         |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ3 | 5        | 11.98         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 14       | 11.98         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 14       | 11.98         |
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA  | 6        | 11.98         |
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA  | 12       | 11.98         |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H   | 2        | 11.98         |
| (1,1098) | 1:A:4:ASN:H     | 1:A:28:SER:HB3 | 1        | 11.98         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA  | 19       | 11.98         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H   | 16       | 11.97         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H   | 7        | 11.97         |
| (1,787)  | 1:A:3:PRO:HB2   | 1:A:16:GLY:HA3 | 7        | 11.97         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H   | 18       | 11.97         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 6        | 11.97         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2 | 11       | 11.97         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2 | 11       | 11.97         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3 | 11       | 11.97         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3 | 11       | 11.97         |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 2        | 11.97         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2 | 17       | 11.97         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3 | 17       | 11.97         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 13       | 11.97         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 13       | 11.97         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 13       | 11.97         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 19       | 11.97         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 6        | 11.97         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 2        | 11.97         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 4        | 11.97         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA  | 13       | 11.97         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H   | 3        | 11.97         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H   | 6        | 11.97         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H   | 6        | 11.97         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 6        | 11.97         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1 | 3        | 11.97         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 3        | 11.97         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 6        | 11.97         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 6        | 11.97         |
| (1,3103) | 1:A:13:GLY:H   | 1:A:22:GLN:HG2  | 17       | 11.97         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2  | 16       | 11.97         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3  | 16       | 11.97         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 7        | 11.97         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 7        | 11.97         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 13       | 11.97         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 5        | 11.97         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 5        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 2        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 2        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 2        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB1  | 4        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB2  | 4        | 11.97         |
| (1,2772) | 1:A:11:TRP:HD1 | 1:A:34:ALA:HB3  | 4        | 11.97         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 19       | 11.97         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 19       | 11.97         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H    | 11       | 11.97         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 7        | 11.97         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 17       | 11.97         |
| (1,2593) | 1:A:11:TRP:H   | 1:A:22:GLN:HB3  | 17       | 11.97         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 6        | 11.97         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 6        | 11.97         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H    | 2        | 11.97         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H    | 2        | 11.97         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 18       | 11.97         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 18       | 11.97         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 18       | 11.97         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 18       | 11.97         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 1        | 11.97         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 1        | 11.97         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 5        | 11.97         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 5        | 11.97         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 13       | 11.97         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 13       | 11.97         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 13       | 11.97         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 13       | 11.97         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 7        | 11.97         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 16       | 11.97         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 18       | 11.97         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 19       | 11.97         |
| (1,2133) | 1:A:8:GLY:HA3  | 1:A:32:TYR:H   | 17       | 11.97         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 16       | 11.97         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 18       | 11.97         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 9        | 11.97         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 2        | 11.97         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 5        | 11.97         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 10       | 11.97         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 8        | 11.97         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 8        | 11.97         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 11       | 11.97         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 11       | 11.97         |
| (1,1634) | 1:A:6:GLN:HB3  | 1:A:16:GLY:H   | 14       | 11.97         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 20       | 11.97         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 6        | 11.97         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 6        | 11.97         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 6        | 11.97         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 5        | 11.97         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 5        | 11.97         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 18       | 11.97         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3 | 18       | 11.97         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 12       | 11.97         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 12       | 11.97         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3 | 20       | 11.97         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 7        | 11.97         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 15       | 11.97         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1 | 4        | 11.97         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2 | 4        | 11.97         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 1        | 11.96         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 1        | 11.96         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 17       | 11.96         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 17       | 11.96         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 12       | 11.96         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 12       | 11.96         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 1        | 11.96         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 7        | 11.96         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 14       | 11.96         |
| (1,728)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:HB3 | 18       | 11.96         |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 3        | 11.96         |
| (1,584)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HB3 | 16       | 11.96         |
| (1,584)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HB3 | 16       | 11.96         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 16       | 11.96         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3 | 2        | 11.96         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 10       | 11.96         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 15       | 11.96         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA  | 2        | 11.96         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2 | 6        | 11.96         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 2        | 11.96         |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2 | 4        | 11.96         |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2 | 4        | 11.96         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 2        | 11.96         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 4        | 11.96         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 20       | 11.96         |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA  | 3        | 11.96         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 7        | 11.96         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 7        | 11.96         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 18       | 11.96         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 18       | 11.96         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 20       | 11.96         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 20       | 11.96         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 18       | 11.96         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 18       | 11.96         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 19       | 11.96         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 19       | 11.96         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 4        | 11.96         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 6        | 11.96         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 6        | 11.96         |
| (1,2681) | 1:A:11:TRP:HB3 | 1:A:17:GLY:H   | 9        | 11.96         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1 | 11       | 11.96         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 11       | 11.96         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 19       | 11.96         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 15       | 11.96         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 4        | 11.96         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 4        | 11.96         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 3        | 11.96         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 5        | 11.96         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 7        | 11.96         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 20       | 11.96         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 20       | 11.96         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 20       | 11.96         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 7        | 11.96         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 3        | 11.96         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H   | 16       | 11.96         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 19       | 11.96         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB3  | 19       | 11.96         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB2  | 11       | 11.96         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB3  | 11       | 11.96         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2  | 9        | 11.96         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3  | 9        | 11.96         |
| (1,1098) | 1:A:4:ASN:H     | 1:A:28:SER:HB3  | 9        | 11.96         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1  | 9        | 11.96         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2  | 9        | 11.96         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD1  | 5        | 11.96         |
| (1,1044) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HD2  | 5        | 11.96         |
| (1,918)  | 1:A:3:PRO:HG2   | 1:A:20:CYS:H    | 13       | 11.95         |
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H    | 13       | 11.95         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H    | 13       | 11.95         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3  | 20       | 11.95         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 1        | 11.95         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 1        | 11.95         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 1        | 11.95         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 1        | 11.95         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 1        | 11.95         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 1        | 11.95         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 17       | 11.95         |
| (1,4631) | 1:A:26:CYS:H    | 1:A:35:HIS:HE1  | 12       | 11.95         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 8        | 11.95         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 8        | 11.95         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 12       | 11.95         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 12       | 11.95         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 5        | 11.95         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 6        | 11.95         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 6        | 11.95         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 6        | 11.95         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H    | 14       | 11.95         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 5        | 11.95         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 16       | 11.95         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 16       | 11.95         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 5        | 11.95         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 5        | 11.95         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 13       | 11.95         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 13       | 11.95         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 11       | 11.95         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 11       | 11.95         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 9        | 11.95         |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 6        | 11.95         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 2        | 11.95         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 4        | 11.95         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 19       | 11.95         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 19       | 11.95         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 17       | 11.95         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 17       | 11.95         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB2 | 18       | 11.95         |
| (1,3037) | 1:A:12:GLY:H   | 1:A:33:CYS:HB3 | 18       | 11.95         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 12       | 11.95         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 12       | 11.95         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 16       | 11.95         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 16       | 11.95         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 2        | 11.95         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 2        | 11.95         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 13       | 11.95         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2 | 14       | 11.95         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3 | 14       | 11.95         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 3        | 11.95         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H   | 6        | 11.95         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA  | 3        | 11.95         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB2 | 17       | 11.95         |
| (1,2546) | 1:A:10:GLY:HA3 | 1:A:22:GLN:HB3 | 17       | 11.95         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 15       | 11.95         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 15       | 11.95         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 14       | 11.95         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 14       | 11.95         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1 | 4        | 11.95         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2 | 4        | 11.95         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 12       | 11.95         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 2        | 11.95         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 10       | 11.95         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2 | 20       | 11.95         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3 | 20       | 11.95         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 6        | 11.95         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG2 | 14       | 11.95         |
| (1,2097) | 1:A:8:GLY:HA2  | 1:A:31:LYS:HG3 | 14       | 11.95         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ1 | 18       | 11.95         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ2 | 18       | 11.95         |
| (1,2071) | 1:A:8:GLY:H    | 1:A:31:LYS:HZ3 | 18       | 11.95         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 1        | 11.95         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 19       | 11.95         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 6        | 11.95         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1636) | 1:A:6:GLN:HB3   | 1:A:17:GLY:HA3  | 6        | 11.95         |
| (1,1636) | 1:A:6:GLN:HB3   | 1:A:17:GLY:HA2  | 9        | 11.95         |
| (1,1636) | 1:A:6:GLN:HB3   | 1:A:17:GLY:HA3  | 9        | 11.95         |
| (1,1582) | 1:A:6:GLN:HA    | 1:A:33:CYS:HB3  | 9        | 11.95         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2  | 14       | 11.95         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3  | 14       | 11.95         |
| (1,1333) | 1:A:4:ASN:HD22  | 1:A:13:GLY:H    | 1        | 11.95         |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB2  | 16       | 11.95         |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB3  | 16       | 11.95         |
| (1,1150) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HG3  | 20       | 11.95         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1  | 12       | 11.95         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2  | 12       | 11.95         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1  | 8        | 11.94         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2  | 8        | 11.94         |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2  | 5        | 11.94         |
| (1,4555) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HD2  | 18       | 11.94         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 13       | 11.94         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 13       | 11.94         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG2  | 15       | 11.94         |
| (1,4365) | 1:A:23:TYR:HA   | 1:A:30:PRO:HG3  | 15       | 11.94         |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 18       | 11.94         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 12       | 11.94         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 12       | 11.94         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 12       | 11.94         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 6        | 11.94         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 6        | 11.94         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 8        | 11.94         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 8        | 11.94         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 13       | 11.94         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 13       | 11.94         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE1  | 14       | 11.94         |
| (1,3369) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HE2  | 14       | 11.94         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE1  | 14       | 11.94         |
| (1,3369) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HE2  | 14       | 11.94         |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3  | 2        | 11.94         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE21 | 11       | 11.94         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE22 | 11       | 11.94         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB2  | 9        | 11.94         |
| (1,3059) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HB3  | 9        | 11.94         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB2  | 19       | 11.94         |
| (1,3037) | 1:A:12:GLY:H    | 1:A:33:CYS:HB3  | 19       | 11.94         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2  | 14       | 11.94         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 9        | 11.94         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 9        | 11.94         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 20       | 11.94         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 20       | 11.94         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 1        | 11.94         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 1        | 11.94         |
| (1,2662) | 1:A:11:TRP:HB2 | 1:A:28:SER:H   | 13       | 11.94         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H   | 12       | 11.94         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 3        | 11.94         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 4        | 11.94         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 4        | 11.94         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 14       | 11.94         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 14       | 11.94         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1 | 1        | 11.94         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 1        | 11.94         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE1 | 17       | 11.94         |
| (1,2349) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HE2 | 17       | 11.94         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 3        | 11.94         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 4        | 11.94         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 11       | 11.94         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 1        | 11.94         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 14       | 11.94         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 18       | 11.94         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 19       | 11.94         |
| (1,1582) | 1:A:6:GLN:HA   | 1:A:33:CYS:HB3 | 20       | 11.94         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 15       | 11.94         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 15       | 11.94         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 16       | 11.94         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H   | 14       | 11.94         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA  | 11       | 11.94         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 20       | 11.94         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 20       | 11.94         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 20       | 11.94         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 17       | 11.94         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 12       | 11.94         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H   | 9        | 11.94         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 6        | 11.93         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 6        | 11.93         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA  | 19       | 11.93         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA  | 19       | 11.93         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3 | 9        | 11.93         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 19       | 11.93         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3  | 8        | 11.93         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3  | 16       | 11.93         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2  | 4        | 11.93         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2  | 4        | 11.93         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3  | 4        | 11.93         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3  | 4        | 11.93         |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2  | 13       | 11.93         |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 8        | 11.93         |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 8        | 11.93         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 7        | 11.93         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 7        | 11.93         |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 17       | 11.93         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 2        | 11.93         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 2        | 11.93         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 11       | 11.93         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 3        | 11.93         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 3        | 11.93         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2  | 4        | 11.93         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3  | 4        | 11.93         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 11       | 11.93         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE21 | 2        | 11.93         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE22 | 2        | 11.93         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE21 | 19       | 11.93         |
| (1,3061) | 1:A:12:GLY:HA3  | 1:A:22:GLN:HE22 | 19       | 11.93         |
| (1,2947) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:HA2  | 8        | 11.93         |
| (1,2947) | 1:A:11:TRP:HZ2  | 1:A:27:GLY:HA3  | 8        | 11.93         |
| (1,2939) | 1:A:11:TRP:HZ2  | 1:A:14:CYS:HB3  | 1        | 11.93         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB2  | 4        | 11.93         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB3  | 4        | 11.93         |
| (1,2859) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HG2  | 17       | 11.93         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB1  | 13       | 11.93         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB2  | 13       | 11.93         |
| (1,2772) | 1:A:11:TRP:HD1  | 1:A:34:ALA:HB3  | 13       | 11.93         |
| (1,2734) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HG   | 16       | 11.93         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE1  | 11       | 11.93         |
| (1,2698) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HE2  | 11       | 11.93         |
| (1,2642) | 1:A:11:TRP:HB2  | 1:A:17:GLY:H    | 13       | 11.93         |
| (1,2642) | 1:A:11:TRP:HB2  | 1:A:17:GLY:H    | 20       | 11.93         |
| (1,2600) | 1:A:11:TRP:H    | 1:A:27:GLY:HA3  | 17       | 11.93         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG   | 8        | 11.93         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG   | 17       | 11.93         |
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3  | 4        | 11.93         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 6        | 11.93         |
| (1,2432) | 1:A:9:PRO:HD2   | 1:A:16:GLY:H   | 6        | 11.93         |
| (1,2432) | 1:A:9:PRO:HD3   | 1:A:16:GLY:H   | 6        | 11.93         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE1 | 1        | 11.93         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE2 | 1        | 11.93         |
| (1,2152) | 1:A:9:PRO:HA    | 1:A:18:LEU:HB3 | 5        | 11.93         |
| (1,2152) | 1:A:9:PRO:HA    | 1:A:18:LEU:HB3 | 6        | 11.93         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG2 | 2        | 11.93         |
| (1,2130) | 1:A:8:GLY:HA3   | 1:A:31:LYS:HG3 | 2        | 11.93         |
| (1,2099) | 1:A:8:GLY:HA2   | 1:A:31:LYS:HD2 | 8        | 11.93         |
| (1,2099) | 1:A:8:GLY:HA2   | 1:A:31:LYS:HD3 | 8        | 11.93         |
| (1,2035) | 1:A:8:GLY:H     | 1:A:17:GLY:HA2 | 13       | 11.93         |
| (1,1783) | 1:A:6:GLN:HG3   | 1:A:33:CYS:HA  | 3        | 11.93         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2 | 17       | 11.93         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3 | 17       | 11.93         |
| (1,1347) | 1:A:4:ASN:HD22  | 1:A:19:CYS:H   | 18       | 11.93         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3 | 15       | 11.93         |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H   | 18       | 11.93         |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H   | 20       | 11.93         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3 | 1        | 11.92         |
| (1,918)  | 1:A:3:PRO:HG2   | 1:A:20:CYS:H   | 11       | 11.92         |
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H   | 11       | 11.92         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 18       | 11.92         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 18       | 11.92         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1 | 14       | 11.92         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2 | 14       | 11.92         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H   | 12       | 11.92         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H   | 18       | 11.92         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3 | 13       | 11.92         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3 | 7        | 11.92         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 3        | 11.92         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 3        | 11.92         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2 | 16       | 11.92         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3 | 16       | 11.92         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2 | 16       | 11.92         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3 | 16       | 11.92         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 5        | 11.92         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 8        | 11.92         |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 13       | 11.92         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 11       | 11.92         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3 | 6        | 11.92         |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2 | 17       | 11.92         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 14       | 11.92         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 14       | 11.92         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 14       | 11.92         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 15       | 11.92         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 11       | 11.92         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 13       | 11.92         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 13       | 11.92         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 6        | 11.92         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 8        | 11.92         |
| (1,2594) | 1:A:11:TRP:H   | 1:A:22:GLN:HG3  | 5        | 11.92         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 11       | 11.92         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 11       | 11.92         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 11       | 11.92         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 11       | 11.92         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 8        | 11.92         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 8        | 11.92         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 14       | 11.92         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 4        | 11.92         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 10       | 11.92         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 15       | 11.92         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 2        | 11.92         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 15       | 11.92         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 15       | 11.92         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 6        | 11.92         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 6        | 11.92         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 6        | 11.92         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 19       | 11.92         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 10       | 11.92         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 10       | 11.92         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 10       | 11.92         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG2  | 20       | 11.92         |
| (1,1449) | 1:A:5:GLY:H    | 1:A:31:LYS:HG3  | 20       | 11.92         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 12       | 11.92         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 12       | 11.92         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 5        | 11.92         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 6        | 11.92         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 4        | 11.92         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 4        | 11.92         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 4        | 11.92         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 4        | 11.92         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA   | 14       | 11.92         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 12       | 11.92         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 6        | 11.92         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 6        | 11.92         |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H   | 19       | 11.92         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3 | 13       | 11.91         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3 | 15       | 11.91         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H   | 6        | 11.91         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 2        | 11.91         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1 | 3        | 11.91         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2 | 3        | 11.91         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H   | 9        | 11.91         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H   | 15       | 11.91         |
| (1,854)  | 1:A:3:PRO:HB3   | 1:A:19:CYS:H   | 7        | 11.91         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3 | 1        | 11.91         |
| (1,728)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:HB3 | 19       | 11.91         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 13       | 11.91         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 13       | 11.91         |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2 | 10       | 11.91         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 17       | 11.91         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 17       | 11.91         |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 12       | 11.91         |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 12       | 11.91         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 9        | 11.91         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 9        | 11.91         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 1        | 11.91         |
| (1,3597) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HG3 | 20       | 11.91         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2 | 4        | 11.91         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3 | 4        | 11.91         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2 | 1        | 11.91         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2 | 13       | 11.91         |
| (1,3513) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB2 | 2        | 11.91         |
| (1,3513) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB2 | 4        | 11.91         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2 | 13       | 11.91         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1 | 18       | 11.91         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2 | 18       | 11.91         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2 | 15       | 11.91         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3 | 15       | 11.91         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H   | 5        | 11.91         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3 | 8        | 11.91         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD1 | 11       | 11.91         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD2 | 11       | 11.91         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD1 | 13       | 11.91         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD2 | 13       | 11.91         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 15       | 11.91         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 15       | 11.91         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2  | 16       | 11.91         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3  | 16       | 11.91         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 13       | 11.91         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 13       | 11.91         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 15       | 11.91         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 15       | 11.91         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 10       | 11.91         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 10       | 11.91         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 12       | 11.91         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 12       | 11.91         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 5        | 11.91         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 2        | 11.91         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 10       | 11.91         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 10       | 11.91         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 19       | 11.91         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 19       | 11.91         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 5        | 11.91         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 2        | 11.91         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 18       | 11.91         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 1        | 11.91         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 17       | 11.91         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 12       | 11.91         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 15       | 11.91         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 14       | 11.91         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 13       | 11.91         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 17       | 11.91         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 5        | 11.91         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 5        | 11.91         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 5        | 11.91         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 15       | 11.91         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 15       | 11.91         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 15       | 11.91         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 4        | 11.91         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 4        | 11.91         |
| (1,1502) | 1:A:5:GLY:HA3  | 1:A:35:HIS:HE1  | 1        | 11.91         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 1        | 11.91         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 1        | 11.91         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 19       | 11.91         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 7        | 11.91         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 7        | 11.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 16       | 11.91         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 11       | 11.9          |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 2        | 11.9          |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 2        | 11.9          |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 19       | 11.9          |
| (1,813)  | 1:A:3:PRO:HB2  | 1:A:28:SER:H   | 20       | 11.9          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 8        | 11.9          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 13       | 11.9          |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 5        | 11.9          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2 | 15       | 11.9          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2 | 15       | 11.9          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3 | 15       | 11.9          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB3 | 15       | 11.9          |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 14       | 11.9          |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2 | 2        | 11.9          |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3 | 2        | 11.9          |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1 | 10       | 11.9          |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2 | 10       | 11.9          |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 14       | 11.9          |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 14       | 11.9          |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 8        | 11.9          |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 9        | 11.9          |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 12       | 11.9          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 11.9          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3 | 1        | 11.9          |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1 | 19       | 11.9          |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2 | 19       | 11.9          |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2 | 1        | 11.9          |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3 | 1        | 11.9          |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2 | 13       | 11.9          |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3 | 13       | 11.9          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1 | 7        | 11.9          |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2 | 7        | 11.9          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1 | 7        | 11.9          |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2 | 7        | 11.9          |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG  | 17       | 11.9          |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 18       | 11.9          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD1 | 11       | 11.9          |
| (1,3298) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HD2 | 11       | 11.9          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 17       | 11.9          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 17       | 11.9          |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1 | 11       | 11.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 11       | 11.9          |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 9        | 11.9          |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 19       | 11.9          |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 1        | 11.9          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 15       | 11.9          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 15       | 11.9          |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 15       | 11.9          |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 17       | 11.9          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2  | 1        | 11.9          |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3  | 1        | 11.9          |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 15       | 11.9          |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 15       | 11.9          |
| (1,2849) | 1:A:11:TRP:HE1 | 1:A:19:CYS:H    | 17       | 11.9          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 20       | 11.9          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 20       | 11.9          |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 18       | 11.9          |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 19       | 11.9          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 3        | 11.9          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 4        | 11.9          |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 2        | 11.9          |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 2        | 11.9          |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 3        | 11.9          |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 12       | 11.9          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 16       | 11.9          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 16       | 11.9          |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 2        | 11.9          |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 2        | 11.9          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 20       | 11.9          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 20       | 11.9          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 9        | 11.9          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 9        | 11.9          |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 6        | 11.9          |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 11       | 11.9          |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 7        | 11.9          |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 18       | 11.9          |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 19       | 11.9          |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 10       | 11.9          |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 1        | 11.9          |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 15       | 11.9          |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 11       | 11.9          |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 1        | 11.9          |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2  | 20       | 11.9          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1783) | 1:A:6:GLN:HG3   | 1:A:33:CYS:HA  | 2        | 11.9          |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA  | 3        | 11.9          |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA  | 4        | 11.9          |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA  | 6        | 11.9          |
| (1,1636) | 1:A:6:GLN:HB3   | 1:A:17:GLY:HA2 | 15       | 11.9          |
| (1,1636) | 1:A:6:GLN:HB3   | 1:A:17:GLY:HA3 | 15       | 11.9          |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2 | 3        | 11.9          |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3 | 3        | 11.9          |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2 | 8        | 11.9          |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3 | 8        | 11.9          |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3 | 2        | 11.9          |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3 | 10       | 11.9          |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB2 | 18       | 11.9          |
| (1,1291) | 1:A:4:ASN:HD21  | 1:A:28:SER:HB3 | 18       | 11.9          |
| (1,1273) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HA  | 9        | 11.9          |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 3        | 11.9          |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 3        | 11.9          |
| (1,1015) | 1:A:3:PRO:HD3   | 1:A:19:CYS:H   | 16       | 11.9          |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 7        | 11.89         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 7        | 11.89         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1 | 16       | 11.89         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2 | 16       | 11.89         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1 | 18       | 11.89         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2 | 18       | 11.89         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2 | 18       | 11.89         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3 | 18       | 11.89         |
| (1,813)  | 1:A:3:PRO:HB2   | 1:A:28:SER:H   | 16       | 11.89         |
| (1,792)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:H   | 12       | 11.89         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 3        | 11.89         |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 17       | 11.89         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 13       | 11.89         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 5        | 11.89         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 5        | 11.89         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 5        | 11.89         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1 | 16       | 11.89         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2 | 16       | 11.89         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 11       | 11.89         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2 | 2        | 11.89         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3 | 2        | 11.89         |
| (1,3500) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HG3 | 17       | 11.89         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 2        | 11.89         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 2        | 11.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA   | 16       | 11.89         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA   | 19       | 11.89         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 6        | 11.89         |
| (1,3003) | 1:A:12:GLY:H   | 1:A:22:GLN:HG2  | 9        | 11.89         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 11       | 11.89         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 12       | 11.89         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 12       | 11.89         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 12       | 11.89         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 1        | 11.89         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 11       | 11.89         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 11       | 11.89         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 5        | 11.89         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 2        | 11.89         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 10       | 11.89         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 5        | 11.89         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3  | 13       | 11.89         |
| (1,2093) | 1:A:8:GLY:HA2  | 1:A:28:SER:H    | 17       | 11.89         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 13       | 11.89         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 13       | 11.89         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 13       | 11.89         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 2        | 11.89         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 4        | 11.89         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 13       | 11.89         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 3        | 11.89         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 3        | 11.89         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2  | 8        | 11.89         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 9        | 11.89         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2  | 4        | 11.89         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 4        | 11.89         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 3        | 11.89         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 20       | 11.89         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 19       | 11.89         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 19       | 11.89         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB2  | 20       | 11.89         |
| (1,1291) | 1:A:4:ASN:HD21 | 1:A:28:SER:HB3  | 20       | 11.89         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 5        | 11.89         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 5        | 11.89         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 7        | 11.89         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 6        | 11.88         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 5        | 11.88         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 5        | 11.88         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 10       | 11.88         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H    | 10       | 11.88         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1  | 6        | 11.88         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2  | 6        | 11.88         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H    | 4        | 11.88         |
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H    | 8        | 11.88         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 20       | 11.88         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 20       | 11.88         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 16       | 11.88         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 16       | 11.88         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB2  | 19       | 11.88         |
| (1,814)  | 1:A:3:PRO:HB2   | 1:A:28:SER:HB3  | 19       | 11.88         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 5        | 11.88         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H    | 10       | 11.88         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3  | 11       | 11.88         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3  | 15       | 11.88         |
| (1,635)  | 1:A:2:GLY:H     | 1:A:22:GLN:HE21 | 19       | 11.88         |
| (1,635)  | 1:A:2:GLY:H     | 1:A:22:GLN:HE22 | 19       | 11.88         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 12       | 11.88         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2  | 13       | 11.88         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3  | 13       | 11.88         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2  | 13       | 11.88         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3  | 13       | 11.88         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 7        | 11.88         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 7        | 11.88         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 19       | 11.88         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 19       | 11.88         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 5        | 11.88         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 5        | 11.88         |
| (1,3498) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HG2  | 17       | 11.88         |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG   | 17       | 11.88         |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG   | 17       | 11.88         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 8        | 11.88         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 8        | 11.88         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD1  | 4        | 11.88         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD2  | 4        | 11.88         |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB1  | 10       | 11.88         |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB2  | 10       | 11.88         |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB3  | 10       | 11.88         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H    | 13       | 11.88         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H    | 18       | 11.88         |
| (1,2909) | 1:A:11:TRP:HZ3  | 1:A:18:LEU:HB2  | 12       | 11.88         |
| (1,2888) | 1:A:11:TRP:HE1  | 1:A:32:TYR:HB2  | 11       | 11.88         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 11       | 11.88         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 10       | 11.88         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 9        | 11.88         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1  | 14       | 11.88         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2  | 14       | 11.88         |
| (1,2504) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HB3  | 17       | 11.88         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 4        | 11.88         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 5        | 11.88         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 7        | 11.88         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 7        | 11.88         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 8        | 11.88         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 8        | 11.88         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 3        | 11.88         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 3        | 11.88         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG   | 3        | 11.88         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 7        | 11.88         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 20       | 11.88         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 11.88         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 11.88         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 11.88         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 3        | 11.88         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 14       | 11.88         |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 1        | 11.88         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 1        | 11.88         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 10       | 11.88         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 10       | 11.88         |
| (1,1347) | 1:A:4:ASN:HD22 | 1:A:19:CYS:H    | 7        | 11.88         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 1        | 11.88         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 1        | 11.88         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 14       | 11.88         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 14       | 11.88         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 6        | 11.88         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 6        | 11.88         |
| (1,1263) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HA   | 1        | 11.88         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 17       | 11.88         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 1        | 11.88         |
| (1,1138) | 1:A:4:ASN:HB2  | 1:A:16:GLY:HA3  | 9        | 11.88         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 17       | 11.87         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 15       | 11.87         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 15       | 11.87         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 5        | 11.87         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 5        | 11.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 3        | 11.87         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3 | 14       | 11.87         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1 | 17       | 11.87         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 18       | 11.87         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 19       | 11.87         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 20       | 11.87         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 16       | 11.87         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 1        | 11.87         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 20       | 11.87         |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3 | 5        | 11.87         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2 | 6        | 11.87         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3 | 6        | 11.87         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 1        | 11.87         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H   | 12       | 11.87         |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG  | 5        | 11.87         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 6        | 11.87         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 6        | 11.87         |
| (1,3062) | 1:A:12:GLY:HA3 | 1:A:23:TYR:HB3 | 15       | 11.87         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 19       | 11.87         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 11       | 11.87         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 11       | 11.87         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 1        | 11.87         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 1        | 11.87         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 20       | 11.87         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 17       | 11.87         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 17       | 11.87         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA  | 10       | 11.87         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 10       | 11.87         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 9        | 11.87         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 9        | 11.87         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 6        | 11.87         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 8        | 11.87         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3 | 1        | 11.87         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3 | 1        | 11.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE1 | 17       | 11.87         |
| (1,2412) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HE2 | 17       | 11.87         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 2        | 11.87         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 2        | 11.87         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 4        | 11.87         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 4        | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 9        | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 9        | 11.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 9        | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 19       | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 19       | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 19       | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 20       | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 20       | 11.87         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 20       | 11.87         |
| (1,2127) | 1:A:8:GLY:HA3  | 1:A:28:SER:H   | 17       | 11.87         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 20       | 11.87         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 6        | 11.87         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 4        | 11.87         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 4        | 11.87         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 3        | 11.87         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 5        | 11.87         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 13       | 11.87         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA  | 2        | 11.87         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG2 | 20       | 11.87         |
| (1,1676) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HG3 | 20       | 11.87         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 5        | 11.87         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 5        | 11.87         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2 | 14       | 11.87         |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3 | 14       | 11.87         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA  | 17       | 11.87         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H   | 3        | 11.87         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 13       | 11.87         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 13       | 11.87         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 13       | 11.87         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3 | 19       | 11.87         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 5        | 11.87         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3 | 15       | 11.87         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 17       | 11.86         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 17       | 11.86         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 2        | 11.86         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 2        | 11.86         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 19       | 11.86         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 19       | 11.86         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H   | 2        | 11.86         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 1        | 11.86         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 1        | 11.86         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 9        | 11.86         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1 | 20       | 11.86         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2 | 20       | 11.86         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 12       | 11.86         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 12       | 11.86         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 18       | 11.86         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 10       | 11.86         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG2 | 4        | 11.86         |
| (1,4365) | 1:A:23:TYR:HA  | 1:A:30:PRO:HG3 | 4        | 11.86         |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3 | 4        | 11.86         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 20       | 11.86         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG  | 14       | 11.86         |
| (1,3522) | 1:A:16:GLY:HA2 | 1:A:35:HIS:HD2 | 15       | 11.86         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1 | 20       | 11.86         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2 | 20       | 11.86         |
| (1,3446) | 1:A:15:ARG:HE  | 1:A:32:TYR:HA  | 7        | 11.86         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2 | 17       | 11.86         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3 | 17       | 11.86         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H   | 15       | 11.86         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2 | 13       | 11.86         |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA  | 6        | 11.86         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3 | 14       | 11.86         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 1        | 11.86         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 7        | 11.86         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 7        | 11.86         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H   | 2        | 11.86         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H   | 10       | 11.86         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 20       | 11.86         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 20       | 11.86         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 13       | 11.86         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 13       | 11.86         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 12       | 11.86         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 12       | 11.86         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 12       | 11.86         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 12       | 11.86         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 4        | 11.86         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 4        | 11.86         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1 | 14       | 11.86         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2 | 14       | 11.86         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 3        | 11.86         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 3        | 11.86         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 3        | 11.86         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 12       | 11.86         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 11       | 11.86         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 16       | 11.86         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 12       | 11.86         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 12       | 11.86         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 6        | 11.86         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 16       | 11.86         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 3        | 11.86         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1  | 10       | 11.86         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2  | 10       | 11.86         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3  | 10       | 11.86         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 5        | 11.86         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 12       | 11.86         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 16       | 11.86         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 17       | 11.86         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 13       | 11.86         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 13       | 11.86         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 13       | 11.86         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 15       | 11.86         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 6        | 11.86         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 6        | 11.86         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 4        | 11.86         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 18       | 11.86         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 5        | 11.86         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 9        | 11.86         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 8        | 11.86         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 3        | 11.86         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 3        | 11.86         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 11       | 11.86         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 11       | 11.86         |
| (1,1015) | 1:A:3:PRO:HD3  | 1:A:19:CYS:H    | 7        | 11.86         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3  | 20       | 11.85         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 2        | 11.85         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 1        | 11.85         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 14       | 11.85         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 14       | 11.85         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 14       | 11.85         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 12       | 11.85         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 12       | 11.85         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 10       | 11.85         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 10       | 11.85         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 8        | 11.85         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 8        | 11.85         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 11       | 11.85         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 11       | 11.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 20       | 11.85         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB2  | 20       | 11.85         |
| (1,814)  | 1:A:3:PRO:HB2  | 1:A:28:SER:HB3  | 20       | 11.85         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3  | 13       | 11.85         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 12       | 11.85         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 12       | 11.85         |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1  | 15       | 11.85         |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 10       | 11.85         |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 14       | 11.85         |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1  | 20       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 19       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 19       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 19       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 19       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 20       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 20       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 20       | 11.85         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 20       | 11.85         |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1  | 18       | 11.85         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 15       | 11.85         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 7        | 11.85         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 7        | 11.85         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 7        | 11.85         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 7        | 11.85         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 9        | 11.85         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 14       | 11.85         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 14       | 11.85         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 20       | 11.85         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE21 | 11       | 11.85         |
| (1,3263) | 1:A:15:ARG:H   | 1:A:22:GLN:HE22 | 11       | 11.85         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 17       | 11.85         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 7        | 11.85         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 11       | 11.85         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 8        | 11.85         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 8        | 11.85         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 19       | 11.85         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 19       | 11.85         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 8        | 11.85         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 8        | 11.85         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H    | 3        | 11.85         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H    | 3        | 11.85         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 12       | 11.85         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 12       | 11.85         |
| (1,2339) | 1:A:9:PRO:HG2  | 1:A:27:GLY:H    | 17       | 11.85         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 1        | 11.85         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD2  | 8        | 11.85         |
| (1,2069) | 1:A:8:GLY:H    | 1:A:31:LYS:HD3  | 8        | 11.85         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 11       | 11.85         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 11       | 11.85         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 5        | 11.85         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 17       | 11.85         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 12       | 11.85         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 13       | 11.85         |
| (1,1603) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HE22 | 7        | 11.85         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 13       | 11.85         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 6        | 11.85         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 6        | 11.85         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 9        | 11.85         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 9        | 11.85         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 6        | 11.85         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 6        | 11.85         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 10       | 11.85         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 10       | 11.85         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 20       | 11.85         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA    | 10       | 11.85         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 19       | 11.85         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 16       | 11.85         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD1  | 2        | 11.85         |
| (1,1044) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HD2  | 2        | 11.85         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE1  | 6        | 11.84         |
| (1,973)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HE2  | 6        | 11.84         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3  | 12       | 11.84         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 5        | 11.84         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 10       | 11.84         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA   | 20       | 11.84         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA   | 20       | 11.84         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 6        | 11.84         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 14       | 11.84         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 11       | 11.84         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3  | 12       | 11.84         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 16       | 11.84         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 16       | 11.84         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 7        | 11.84         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 7        | 11.84         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 4        | 11.84         |
| (1,4601) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HA   | 16       | 11.84         |
| (1,4601) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HA   | 16       | 11.84         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 18       | 11.84         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 18       | 11.84         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 18       | 11.84         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 18       | 11.84         |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 13       | 11.84         |
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE21 | 4        | 11.84         |
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE22 | 4        | 11.84         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1  | 11       | 11.84         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 11       | 11.84         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 6        | 11.84         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2  | 16       | 11.84         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3  | 16       | 11.84         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2  | 11       | 11.84         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3  | 11       | 11.84         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 8        | 11.84         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 8        | 11.84         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 7        | 11.84         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 7        | 11.84         |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2  | 17       | 11.84         |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 17       | 11.84         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 5        | 11.84         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 5        | 11.84         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 17       | 11.84         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 17       | 11.84         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 18       | 11.84         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2  | 19       | 11.84         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3  | 19       | 11.84         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 7        | 11.84         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 15       | 11.84         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 6        | 11.84         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 20       | 11.84         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 12       | 11.84         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 5        | 11.84         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 9        | 11.84         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 9        | 11.84         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 7        | 11.84         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 7        | 11.84         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 18       | 11.84         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 18       | 11.84         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 9        | 11.84         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 16       | 11.84         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 16       | 11.84         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 11       | 11.84         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 11       | 11.84         |
| (1,2267) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HB3  | 17       | 11.84         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 10       | 11.84         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H    | 14       | 11.84         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 11       | 11.84         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 11       | 11.84         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 11       | 11.84         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2  | 3        | 11.84         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 14       | 11.84         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA   | 13       | 11.84         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 16       | 11.84         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 5        | 11.84         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 5        | 11.84         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 19       | 11.84         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 19       | 11.84         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 20       | 11.84         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 20       | 11.84         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 4        | 11.84         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 3        | 11.84         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 5        | 11.84         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 5        | 11.84         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 18       | 11.84         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 13       | 11.84         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 8        | 11.84         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 8        | 11.84         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3  | 8        | 11.83         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 10       | 11.83         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 18       | 11.83         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 3        | 11.83         |
| (1,806)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:H    | 4        | 11.83         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 12       | 11.83         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3  | 20       | 11.83         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 9        | 11.83         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 9        | 11.83         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 13       | 11.83         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 13       | 11.83         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 18       | 11.83         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 18       | 11.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 16       | 11.83         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 16       | 11.83         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 4        | 11.83         |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1  | 8        | 11.83         |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H    | 13       | 11.83         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2  | 12       | 11.83         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2  | 12       | 11.83         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2  | 17       | 11.83         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3  | 17       | 11.83         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2  | 17       | 11.83         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3  | 17       | 11.83         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 13       | 11.83         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 13       | 11.83         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 13       | 11.83         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 13       | 11.83         |
| (1,4384) | 1:A:23:TYR:HB2 | 1:A:35:HIS:H    | 10       | 11.83         |
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H    | 9        | 11.83         |
| (1,4155) | 1:A:22:GLN:HA  | 1:A:35:HIS:HE1  | 12       | 11.83         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 9        | 11.83         |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3  | 15       | 11.83         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 9        | 11.83         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 9        | 11.83         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3  | 2        | 11.83         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3  | 4        | 11.83         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H    | 13       | 11.83         |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 9        | 11.83         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2  | 17       | 11.83         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3  | 17       | 11.83         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 10       | 11.83         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 18       | 11.83         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 19       | 11.83         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2  | 17       | 11.83         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 3        | 11.83         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 3        | 11.83         |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H    | 2        | 11.83         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H    | 9        | 11.83         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 5        | 11.83         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 5        | 11.83         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 15       | 11.83         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 3        | 11.83         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 3        | 11.83         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H    | 5        | 11.83         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 8        | 11.83         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3 | 16       | 11.83         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3 | 19       | 11.83         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2 | 16       | 11.83         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 19       | 11.83         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 19       | 11.83         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 16       | 11.83         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 12       | 11.83         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 12       | 11.83         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 16       | 11.83         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 16       | 11.83         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3 | 20       | 11.83         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 1        | 11.83         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 15       | 11.83         |
| (1,2191) | 1:A:9:PRO:HA   | 1:A:35:HIS:HD2 | 6        | 11.83         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 13       | 11.83         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 2        | 11.83         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 8        | 11.83         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 20       | 11.83         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 4        | 11.83         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 9        | 11.83         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 7        | 11.83         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 8        | 11.83         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 9        | 11.83         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 9        | 11.83         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 9        | 11.83         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 6        | 11.83         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 19       | 11.83         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 8        | 11.83         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 8        | 11.83         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2  | 2        | 11.83         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3  | 2        | 11.83         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 6        | 11.83         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 4        | 11.83         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 14       | 11.83         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 14       | 11.83         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 7        | 11.82         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 9        | 11.82         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 16       | 11.82         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 18       | 11.82         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 5        | 11.82         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 14       | 11.82         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 16       | 11.82         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 19       | 11.82         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 16       | 11.82         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 15       | 11.82         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 15       | 11.82         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 11       | 11.82         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 11       | 11.82         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 17       | 11.82         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 17       | 11.82         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H   | 3        | 11.82         |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 8        | 11.82         |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 8        | 11.82         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 4        | 11.82         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 4        | 11.82         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H   | 7        | 11.82         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2 | 5        | 11.82         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3 | 5        | 11.82         |
| (1,3539) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HB2 | 10       | 11.82         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 1        | 11.82         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 13       | 11.82         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H   | 4        | 11.82         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H   | 4        | 11.82         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1 | 10       | 11.82         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2 | 10       | 11.82         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1 | 13       | 11.82         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2 | 13       | 11.82         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2 | 13       | 11.82         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3 | 13       | 11.82         |
| (1,3057) | 1:A:12:GLY:HA3 | 1:A:22:GLN:H   | 17       | 11.82         |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3 | 18       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 16       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 16       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 18       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 18       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2 | 20       | 11.82         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3 | 20       | 11.82         |
| (1,2768) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HA  | 17       | 11.82         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG  | 1        | 11.82         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 17       | 11.82         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 17       | 11.82         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2 | 1        | 11.82         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3 | 1        | 11.82         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 2        | 11.82         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 2        | 11.82         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 10       | 11.82         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 10       | 11.82         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 5        | 11.82         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 10       | 11.82         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 18       | 11.82         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 18       | 11.82         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 9        | 11.82         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 9        | 11.82         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 10       | 11.82         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2  | 8        | 11.82         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 6        | 11.82         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA   | 14       | 11.82         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 12       | 11.82         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 13       | 11.82         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 13       | 11.82         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 15       | 11.82         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 19       | 11.82         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 12       | 11.82         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 12       | 11.82         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 8        | 11.82         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 8        | 11.82         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 18       | 11.82         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 15       | 11.82         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 15       | 11.82         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 2        | 11.82         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 2        | 11.82         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H    | 4        | 11.82         |
| (1,1273) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HA   | 20       | 11.82         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 1        | 11.82         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 15       | 11.82         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 6        | 11.82         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 6        | 11.82         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 7        | 11.82         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 8        | 11.82         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 13       | 11.82         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 1        | 11.82         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 15       | 11.82         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3  | 19       | 11.81         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 17       | 11.81         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H    | 2        | 11.81         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,856)  | 1:A:3:PRO:HB3   | 1:A:21:SER:H   | 5        | 11.81         |
| (1,806)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:H   | 6        | 11.81         |
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3 | 17       | 11.81         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3 | 20       | 11.81         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 6        | 11.81         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1 | 19       | 11.81         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2 | 19       | 11.81         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD2 | 18       | 11.81         |
| (1,585)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HD3 | 18       | 11.81         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD2 | 18       | 11.81         |
| (1,585)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HD3 | 18       | 11.81         |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 11       | 11.81         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 3        | 11.81         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 3        | 11.81         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 6        | 11.81         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 6        | 11.81         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 9        | 11.81         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2 | 7        | 11.81         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 7        | 11.81         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 7        | 11.81         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1 | 6        | 11.81         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1 | 7        | 11.81         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2 | 7        | 11.81         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1 | 17       | 11.81         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2 | 17       | 11.81         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H   | 12       | 11.81         |
| (1,2939) | 1:A:11:TRP:HZ2  | 1:A:14:CYS:HB3 | 20       | 11.81         |
| (1,2823) | 1:A:11:TRP:HE3  | 1:A:32:TYR:HB2 | 20       | 11.81         |
| (1,2823) | 1:A:11:TRP:HE3  | 1:A:32:TYR:HB3 | 20       | 11.81         |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H   | 15       | 11.81         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG  | 18       | 11.81         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG  | 19       | 11.81         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG  | 20       | 11.81         |
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 9        | 11.81         |
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 14       | 11.81         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2 | 14       | 11.81         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3 | 14       | 11.81         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA2 | 3        | 11.81         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA3 | 3        | 11.81         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA2 | 4        | 11.81         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA3 | 4        | 11.81         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA2 | 5        | 11.81         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 5        | 11.81         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2 | 6        | 11.81         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3 | 6        | 11.81         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3 | 1        | 11.81         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 11       | 11.81         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 20       | 11.81         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 9        | 11.81         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 9        | 11.81         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 18       | 11.81         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 18       | 11.81         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 19       | 11.81         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 19       | 11.81         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H   | 2        | 11.81         |
| (1,2381) | 1:A:9:PRO:HG3  | 1:A:19:CYS:H   | 17       | 11.81         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 7        | 11.81         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 2        | 11.81         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 4        | 11.81         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 1        | 11.81         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 1        | 11.81         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 1        | 11.81         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2 | 14       | 11.81         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3 | 14       | 11.81         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 2        | 11.81         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 2        | 11.81         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 14       | 11.81         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 7        | 11.81         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 15       | 11.81         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA  | 17       | 11.81         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 16       | 11.81         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 18       | 11.81         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 16       | 11.81         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 2        | 11.81         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 2        | 11.81         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 13       | 11.81         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 13       | 11.81         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 12       | 11.81         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 12       | 11.81         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 7        | 11.81         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 3        | 11.81         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3 | 3        | 11.81         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 8        | 11.81         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 16       | 11.81         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB3  | 16       | 11.81         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2  | 11       | 11.81         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3  | 11       | 11.81         |
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA   | 16       | 11.81         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA   | 3        | 11.81         |
| (1,1073) | 1:A:4:ASN:H     | 1:A:19:CYS:HB3  | 8        | 11.81         |
| (1,1073) | 1:A:4:ASN:H     | 1:A:19:CYS:HB3  | 9        | 11.81         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1  | 6        | 11.81         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2  | 6        | 11.81         |
| (1,973)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HE1  | 15       | 11.8          |
| (1,973)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HE2  | 15       | 11.8          |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA   | 8        | 11.8          |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA   | 8        | 11.8          |
| (1,917)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:HA   | 9        | 11.8          |
| (1,917)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:HA   | 9        | 11.8          |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2  | 11       | 11.8          |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3  | 8        | 11.8          |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3  | 18       | 11.8          |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3  | 19       | 11.8          |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3  | 11       | 11.8          |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1  | 20       | 11.8          |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2  | 20       | 11.8          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1  | 3        | 11.8          |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2  | 13       | 11.8          |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2  | 5        | 11.8          |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3  | 5        | 11.8          |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2  | 5        | 11.8          |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3  | 5        | 11.8          |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 7        | 11.8          |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 7        | 11.8          |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 11       | 11.8          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 5        | 11.8          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 5        | 11.8          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 6        | 11.8          |
| (1,3412) | 1:A:15:ARG:HD2  | 1:A:31:LYS:H    | 13       | 11.8          |
| (1,3412) | 1:A:15:ARG:HD3  | 1:A:31:LYS:H    | 13       | 11.8          |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H    | 18       | 11.8          |
| (1,3319) | 1:A:15:ARG:HB2  | 1:A:35:HIS:H    | 5        | 11.8          |
| (1,3263) | 1:A:15:ARG:H    | 1:A:22:GLN:HE21 | 15       | 11.8          |
| (1,3263) | 1:A:15:ARG:H    | 1:A:22:GLN:HE22 | 15       | 11.8          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 5        | 11.8          |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 5        | 11.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 5        | 11.8          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 18       | 11.8          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 18       | 11.8          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 20       | 11.8          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 20       | 11.8          |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 8        | 11.8          |
| (1,2939) | 1:A:11:TRP:HZ2 | 1:A:14:CYS:HB3  | 9        | 11.8          |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 18       | 11.8          |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 19       | 11.8          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 18       | 11.8          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 18       | 11.8          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 19       | 11.8          |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 19       | 11.8          |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 1        | 11.8          |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 15       | 11.8          |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 15       | 11.8          |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 15       | 11.8          |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 1        | 11.8          |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 7        | 11.8          |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 7        | 11.8          |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 9        | 11.8          |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 9        | 11.8          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 15       | 11.8          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 15       | 11.8          |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 5        | 11.8          |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 8        | 11.8          |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 5        | 11.8          |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 2        | 11.8          |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 15       | 11.8          |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 1        | 11.8          |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 20       | 11.8          |
| (1,1576) | 1:A:6:GLN:HA   | 1:A:31:LYS:HB2  | 15       | 11.8          |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 5        | 11.8          |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 5        | 11.8          |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 18       | 11.8          |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 5        | 11.8          |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 5        | 11.8          |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 15       | 11.8          |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 3        | 11.8          |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 10       | 11.8          |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 10       | 11.8          |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 15       | 11.8          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3 | 15       | 11.8          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG2 | 20       | 11.8          |
| (1,1166) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HG3 | 20       | 11.8          |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 10       | 11.8          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 4        | 11.8          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 4        | 11.8          |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 9        | 11.79         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 9        | 11.79         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 9        | 11.79         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 9        | 11.79         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 18       | 11.79         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 18       | 11.79         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 19       | 11.79         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 19       | 11.79         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 20       | 11.79         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 20       | 11.79         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 7        | 11.79         |
| (1,856)  | 1:A:3:PRO:HB3  | 1:A:21:SER:H   | 10       | 11.79         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1 | 9        | 11.79         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2 | 9        | 11.79         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 12       | 11.79         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 4        | 11.79         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 12       | 11.79         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 4        | 11.79         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 19       | 11.79         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 19       | 11.79         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 11       | 11.79         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 11       | 11.79         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 7        | 11.79         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2 | 16       | 11.79         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2 | 16       | 11.79         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3 | 16       | 11.79         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3 | 16       | 11.79         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 6        | 11.79         |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3 | 17       | 11.79         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2 | 17       | 11.79         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3 | 17       | 11.79         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 15       | 11.79         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 15       | 11.79         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H   | 6        | 11.79         |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA  | 10       | 11.79         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3 | 18       | 11.79         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 12       | 11.79         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 12       | 11.79         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1 | 16       | 11.79         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2 | 16       | 11.79         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1 | 19       | 11.79         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2 | 19       | 11.79         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 6        | 11.79         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 6        | 11.79         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 3        | 11.79         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 4        | 11.79         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 6        | 11.79         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG  | 13       | 11.79         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 15       | 11.79         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 16       | 11.79         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 18       | 11.79         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 19       | 11.79         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 15       | 11.79         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 15       | 11.79         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 20       | 11.79         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 20       | 11.79         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H   | 4        | 11.79         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H   | 6        | 11.79         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 16       | 11.79         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 18       | 11.79         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 19       | 11.79         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 11       | 11.79         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 13       | 11.79         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 16       | 11.79         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 3        | 11.79         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 9        | 11.79         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 13       | 11.79         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 14       | 11.79         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 8        | 11.79         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 9        | 11.79         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA  | 1        | 11.79         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 16       | 11.79         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 16       | 11.79         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 1        | 11.79         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 1        | 11.79         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 11       | 11.79         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 11       | 11.79         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 12       | 11.79         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB2 | 4        | 11.79         |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB3 | 4        | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 2        | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 2        | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 12       | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 12       | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 13       | 11.79         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 13       | 11.79         |
| (1,1201) | 1:A:4:ASN:HB3   | 1:A:16:GLY:HA3 | 9        | 11.79         |
| (1,1201) | 1:A:4:ASN:HB3   | 1:A:16:GLY:HA3 | 12       | 11.79         |
| (1,1185) | 1:A:4:ASN:HB3   | 1:A:9:PRO:HA   | 2        | 11.79         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA  | 2        | 11.79         |
| (1,1079) | 1:A:4:ASN:H     | 1:A:22:GLN:HA  | 5        | 11.79         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1 | 7        | 11.79         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2 | 7        | 11.79         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE1 | 15       | 11.79         |
| (1,1045) | 1:A:3:PRO:HD3   | 1:A:32:TYR:HE2 | 15       | 11.79         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1 | 10       | 11.78         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2 | 10       | 11.78         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3 | 4        | 11.78         |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2 | 5        | 11.78         |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3 | 5        | 11.78         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 12       | 11.78         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 12       | 11.78         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2 | 15       | 11.78         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3 | 16       | 11.78         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 4        | 11.78         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 7        | 11.78         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 1        | 11.78         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 1        | 11.78         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 18       | 11.78         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 18       | 11.78         |
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1 | 9        | 11.78         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 4        | 11.78         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 4        | 11.78         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2 | 4        | 11.78         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2 | 4        | 11.78         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 1        | 11.78         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 3        | 11.78         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 17       | 11.78         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2 | 5        | 11.78         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 18       | 11.78         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 5        | 11.78         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 5        | 11.78         |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3  | 14       | 11.78         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2  | 15       | 11.78         |
| (1,3556) | 1:A:17:GLY:H   | 1:A:22:GLN:H    | 16       | 11.78         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 11       | 11.78         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 16       | 11.78         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA   | 3        | 11.78         |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 4        | 11.78         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 3        | 11.78         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 3        | 11.78         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 3        | 11.78         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 3        | 11.78         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 8        | 11.78         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 14       | 11.78         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 11       | 11.78         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 11       | 11.78         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 10       | 11.78         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 10       | 11.78         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 13       | 11.78         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 13       | 11.78         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 13       | 11.78         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 11       | 11.78         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 11       | 11.78         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB2  | 16       | 11.78         |
| (1,2823) | 1:A:11:TRP:HE3 | 1:A:32:TYR:HB3  | 16       | 11.78         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 17       | 11.78         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 14       | 11.78         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 14       | 11.78         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 14       | 11.78         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 20       | 11.78         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 11       | 11.78         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 13       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 16       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 16       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 18       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 18       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 19       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 19       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 20       | 11.78         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 20       | 11.78         |
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H    | 4        | 11.78         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2175) | 1:A:9:PRO:HA   | 1:A:27:GLY:H   | 6        | 11.78         |
| (1,2100) | 1:A:8:GLY:HA2  | 1:A:32:TYR:H   | 17       | 11.78         |
| (1,2035) | 1:A:8:GLY:H    | 1:A:17:GLY:HA2 | 12       | 11.78         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 15       | 11.78         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 16       | 11.78         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 17       | 11.78         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 17       | 11.78         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 1        | 11.78         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 8        | 11.78         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 8        | 11.78         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 15       | 11.78         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 15       | 11.78         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 9        | 11.78         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3 | 19       | 11.78         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 6        | 11.78         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 14       | 11.78         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 16       | 11.78         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 16       | 11.78         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 7        | 11.78         |
| (1,1079) | 1:A:4:ASN:H    | 1:A:22:GLN:HA  | 6        | 11.78         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 3        | 11.78         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 3        | 11.78         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE  | 10       | 11.78         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 1        | 11.78         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 1        | 11.78         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1 | 16       | 11.77         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2 | 16       | 11.77         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 12       | 11.77         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 12       | 11.77         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA  | 16       | 11.77         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA  | 16       | 11.77         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 16       | 11.77         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 16       | 11.77         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 9        | 11.77         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 7        | 11.77         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 9        | 11.77         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 1        | 11.77         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 1        | 11.77         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3 | 15       | 11.77         |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 14       | 11.77         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2 | 17       | 11.77         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2 | 17       | 11.77         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3 | 17       | 11.77         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3 | 17       | 11.77         |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 5        | 11.77         |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 12       | 11.77         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 5        | 11.77         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 13       | 11.77         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 13       | 11.77         |
| (1,3281) | 1:A:15:ARG:H    | 1:A:35:HIS:HD2 | 1        | 11.77         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE1 | 6        | 11.77         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE2 | 6        | 11.77         |
| (1,3062) | 1:A:12:GLY:HA3  | 1:A:23:TYR:HB3 | 17       | 11.77         |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H   | 9        | 11.77         |
| (1,2909) | 1:A:11:TRP:HZ3  | 1:A:18:LEU:HB2 | 8        | 11.77         |
| (1,2662) | 1:A:11:TRP:HB2  | 1:A:28:SER:H   | 17       | 11.77         |
| (1,2586) | 1:A:11:TRP:H    | 1:A:18:LEU:HG  | 7        | 11.77         |
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 7        | 11.77         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA2 | 1        | 11.77         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA3 | 1        | 11.77         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3 | 16       | 11.77         |
| (1,2464) | 1:A:10:GLY:H    | 1:A:19:CYS:HB3 | 13       | 11.77         |
| (1,2404) | 1:A:9:PRO:HG3   | 1:A:27:GLY:H   | 3        | 11.77         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE1 | 6        | 11.77         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE2 | 6        | 11.77         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE1 | 14       | 11.77         |
| (1,2394) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HE2 | 14       | 11.77         |
| (1,2356) | 1:A:9:PRO:HG2   | 1:A:35:HIS:HA  | 5        | 11.77         |
| (1,2259) | 1:A:9:PRO:HB3   | 1:A:19:CYS:HA  | 10       | 11.77         |
| (1,2160) | 1:A:9:PRO:HA    | 1:A:22:GLN:H   | 5        | 11.77         |
| (1,2149) | 1:A:9:PRO:HA    | 1:A:15:ARG:HE  | 6        | 11.77         |
| (1,2148) | 1:A:9:PRO:HA    | 1:A:15:ARG:HG2 | 15       | 11.77         |
| (1,2148) | 1:A:9:PRO:HA    | 1:A:15:ARG:HG3 | 15       | 11.77         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA2 | 12       | 11.77         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA3 | 12       | 11.77         |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA  | 12       | 11.77         |
| (1,1539) | 1:A:6:GLN:H     | 1:A:31:LYS:HG2 | 2        | 11.77         |
| (1,1539) | 1:A:6:GLN:H     | 1:A:31:LYS:HG3 | 2        | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2 | 7        | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3 | 7        | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2 | 8        | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3 | 8        | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2 | 11       | 11.77         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3 | 11       | 11.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 20       | 11.77         |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 20       | 11.77         |
| (1,1333) | 1:A:4:ASN:HD22 | 1:A:13:GLY:H    | 9        | 11.77         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 2        | 11.77         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 3        | 11.77         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 3        | 11.77         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 18       | 11.77         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE   | 20       | 11.77         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 20       | 11.76         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 20       | 11.76         |
| (1,917)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:HA   | 7        | 11.76         |
| (1,917)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:HA   | 7        | 11.76         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 7        | 11.76         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 7        | 11.76         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 19       | 11.76         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 19       | 11.76         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 9        | 11.76         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 9        | 11.76         |
| (1,633)  | 1:A:2:GLY:H    | 1:A:22:GLN:HG2  | 10       | 11.76         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 1        | 11.76         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 1        | 11.76         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 18       | 11.76         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 18       | 11.76         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 18       | 11.76         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 18       | 11.76         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 18       | 11.76         |
| (1,4258) | 1:A:22:GLN:HG3 | 1:A:29:GLY:H    | 5        | 11.76         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 6        | 11.76         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3  | 19       | 11.76         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3  | 18       | 11.76         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 3        | 11.76         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 11       | 11.76         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 3        | 11.76         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 4        | 11.76         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 6        | 11.76         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 9        | 11.76         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 9        | 11.76         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 9        | 11.76         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 9        | 11.76         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H    | 14       | 11.76         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 11       | 11.76         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 11       | 11.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 2        | 11.76         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 16       | 11.76         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 14       | 11.76         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 3        | 11.76         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 3        | 11.76         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 9        | 11.76         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 9        | 11.76         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2  | 7        | 11.76         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 13       | 11.76         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 13       | 11.76         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 13       | 11.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 4        | 11.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 4        | 11.76         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 4        | 11.76         |
| (1,2586) | 1:A:11:TRP:H   | 1:A:18:LEU:HG   | 1        | 11.76         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 12       | 11.76         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 11       | 11.76         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 11       | 11.76         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H    | 7        | 11.76         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 13       | 11.76         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 13       | 11.76         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 15       | 11.76         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 15       | 11.76         |
| (1,2290) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HD2  | 1        | 11.76         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 2        | 11.76         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 9        | 11.76         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 9        | 11.76         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA   | 4        | 11.76         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 11       | 11.76         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 13       | 11.76         |
| (1,1667) | 1:A:6:GLN:HB3  | 1:A:28:SER:HA   | 11       | 11.76         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 9        | 11.76         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 9        | 11.76         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 9        | 11.76         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG2   | 9        | 11.76         |
| (1,1325) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HG3   | 9        | 11.76         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 18       | 11.76         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 18       | 11.76         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 6        | 11.76         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 6        | 11.76         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 5        | 11.76         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 5        | 11.76         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1169) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HA  | 19       | 11.76         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3 | 3        | 11.76         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1 | 18       | 11.75         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2 | 18       | 11.75         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3 | 14       | 11.75         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 15       | 11.75         |
| (1,913)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:H   | 14       | 11.75         |
| (1,913)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:H   | 14       | 11.75         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1 | 1        | 11.75         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2 | 1        | 11.75         |
| (1,850)  | 1:A:3:PRO:HB3   | 1:A:16:GLY:HA3 | 18       | 11.75         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1 | 12       | 11.75         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2 | 12       | 11.75         |
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3 | 4        | 11.75         |
| (1,759)  | 1:A:3:PRO:HA    | 1:A:20:CYS:HB3 | 3        | 11.75         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2 | 8        | 11.75         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3 | 8        | 11.75         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 6        | 11.75         |
| (1,593)  | 1:A:1:SER:HB2   | 1:A:35:HIS:HD2 | 6        | 11.75         |
| (1,593)  | 1:A:1:SER:HB3   | 1:A:35:HIS:HD2 | 6        | 11.75         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 16       | 11.75         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 16       | 11.75         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG2 | 10       | 11.75         |
| (1,4588) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HG3 | 10       | 11.75         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG2 | 10       | 11.75         |
| (1,4588) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HG3 | 10       | 11.75         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 14       | 11.75         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1 | 19       | 11.75         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2 | 19       | 11.75         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG2 | 17       | 11.75         |
| (1,3540) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HG3 | 17       | 11.75         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG  | 4        | 11.75         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2 | 12       | 11.75         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3 | 12       | 11.75         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2 | 14       | 11.75         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3 | 14       | 11.75         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H   | 10       | 11.75         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H   | 10       | 11.75         |
| (1,3413) | 1:A:15:ARG:HD2  | 1:A:31:LYS:HA  | 9        | 11.75         |
| (1,3413) | 1:A:15:ARG:HD3  | 1:A:31:LYS:HA  | 9        | 11.75         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 5        | 11.75         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 11       | 11.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2 | 18       | 11.75         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 5        | 11.75         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 5        | 11.75         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2 | 11       | 11.75         |
| (1,3005) | 1:A:12:GLY:H   | 1:A:22:GLN:HG3 | 5        | 11.75         |
| (1,2989) | 1:A:12:GLY:H   | 1:A:17:GLY:H   | 15       | 11.75         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2 | 13       | 11.75         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA  | 5        | 11.75         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA  | 6        | 11.75         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1 | 12       | 11.75         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2 | 12       | 11.75         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3 | 12       | 11.75         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 14       | 11.75         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 14       | 11.75         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 18       | 11.75         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 19       | 11.75         |
| (1,2432) | 1:A:9:PRO:HD2  | 1:A:16:GLY:H   | 14       | 11.75         |
| (1,2432) | 1:A:9:PRO:HD3  | 1:A:16:GLY:H   | 14       | 11.75         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 17       | 11.75         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 20       | 11.75         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 6        | 11.75         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 6        | 11.75         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 7        | 11.75         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 18       | 11.75         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 12       | 11.75         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 11       | 11.75         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 8        | 11.75         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 11       | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 1        | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 1        | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 1        | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 11       | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 11       | 11.75         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 11       | 11.75         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 10       | 11.75         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2 | 17       | 11.75         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 17       | 11.75         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3 | 17       | 11.75         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3 | 17       | 11.75         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3 | 18       | 11.75         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 19       | 11.75         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 19       | 11.75         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 16       | 11.75         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 18       | 11.75         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2  | 17       | 11.75         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3  | 17       | 11.75         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 15       | 11.75         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 15       | 11.75         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 15       | 11.75         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 1        | 11.75         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 1        | 11.75         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 4        | 11.75         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2  | 3        | 11.75         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 20       | 11.75         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 20       | 11.74         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA   | 8        | 11.74         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA   | 8        | 11.74         |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H    | 13       | 11.74         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 11       | 11.74         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2  | 14       | 11.74         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2  | 14       | 11.74         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2  | 5        | 11.74         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2  | 7        | 11.74         |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1  | 13       | 11.74         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 2        | 11.74         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 2        | 11.74         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 8        | 11.74         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 8        | 11.74         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2  | 3        | 11.74         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3  | 3        | 11.74         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 6        | 11.74         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 6        | 11.74         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 6        | 11.74         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 18       | 11.74         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG   | 4        | 11.74         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG   | 4        | 11.74         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 4        | 11.74         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 4        | 11.74         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 6        | 11.74         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 5        | 11.74         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 6        | 11.74         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 14       | 11.74         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 9        | 11.74         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 9        | 11.74         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 18       | 11.74         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 18       | 11.74         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1 | 12       | 11.74         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2 | 12       | 11.74         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3 | 12       | 11.74         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA2 | 17       | 11.74         |
| (1,2947) | 1:A:11:TRP:HZ2 | 1:A:27:GLY:HA3 | 17       | 11.74         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2 | 20       | 11.74         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA  | 3        | 11.74         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 5        | 11.74         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE1 | 15       | 11.74         |
| (1,2698) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HE2 | 15       | 11.74         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 8        | 11.74         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD1 | 17       | 11.74         |
| (1,2483) | 1:A:10:GLY:H   | 1:A:32:TYR:HD2 | 17       | 11.74         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2 | 7        | 11.74         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2 | 7        | 11.74         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3 | 7        | 11.74         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3 | 7        | 11.74         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2 | 16       | 11.74         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2 | 16       | 11.74         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3 | 16       | 11.74         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3 | 16       | 11.74         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE  | 9        | 11.74         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE  | 9        | 11.74         |
| (1,2418) | 1:A:9:PRO:HG3  | 1:A:35:HIS:H   | 17       | 11.74         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1 | 10       | 11.74         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2 | 10       | 11.74         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 6        | 11.74         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA  | 3        | 11.74         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 3        | 11.74         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 5        | 11.74         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 5        | 11.74         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 5        | 11.74         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 14       | 11.74         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 19       | 11.74         |
| (1,1828) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HB2 | 10       | 11.74         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 15       | 11.74         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 1        | 11.74         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 17       | 11.74         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2 | 10       | 11.74         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3 | 10       | 11.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 5        | 11.74         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 11       | 11.74         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 12       | 11.74         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 12       | 11.74         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 17       | 11.74         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 2        | 11.74         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 2        | 11.74         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 7        | 11.74         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 8        | 11.74         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 19       | 11.74         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 5        | 11.74         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 5        | 11.74         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 10       | 11.74         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 10       | 11.74         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 16       | 11.74         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 18       | 11.74         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 13       | 11.74         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 13       | 11.74         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 19       | 11.73         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 19       | 11.73         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3  | 3        | 11.73         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 13       | 11.73         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 8        | 11.73         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 8        | 11.73         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1  | 5        | 11.73         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2  | 5        | 11.73         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3  | 2        | 11.73         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 20       | 11.73         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 20       | 11.73         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 20       | 11.73         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 20       | 11.73         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 6        | 11.73         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB2  | 5        | 11.73         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB2  | 5        | 11.73         |
| (1,4587) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HB3  | 5        | 11.73         |
| (1,4587) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HB3  | 5        | 11.73         |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB2  | 4        | 11.73         |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB3  | 4        | 11.73         |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3  | 2        | 11.73         |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3  | 2        | 11.73         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2  | 3        | 11.73         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2  | 16       | 11.73         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2  | 19       | 11.73         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 11       | 11.73         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 11       | 11.73         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 19       | 11.73         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2  | 8        | 11.73         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3  | 8        | 11.73         |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H    | 4        | 11.73         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 5        | 11.73         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 5        | 11.73         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H    | 18       | 11.73         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H    | 18       | 11.73         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG   | 3        | 11.73         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG   | 3        | 11.73         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 2        | 11.73         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 2        | 11.73         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 1        | 11.73         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 19       | 11.73         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 19       | 11.73         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 10       | 11.73         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 2        | 11.73         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 10       | 11.73         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 14       | 11.73         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 2        | 11.73         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 10       | 11.73         |
| (1,2734) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HG   | 17       | 11.73         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 2        | 11.73         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 2        | 11.73         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 2        | 11.73         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 16       | 11.73         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H    | 15       | 11.73         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 15       | 11.73         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 5        | 11.73         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 5        | 11.73         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA2  | 13       | 11.73         |
| (1,2478) | 1:A:10:GLY:H   | 1:A:27:GLY:HA3  | 13       | 11.73         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 9        | 11.73         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 6        | 11.73         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 6        | 11.73         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 1        | 11.73         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 1        | 11.73         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 8        | 11.73         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 13       | 11.73         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2155) | 1:A:9:PRO:HA   | 1:A:19:CYS:H   | 17       | 11.73         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 11.73         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 11.73         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 11.73         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 14       | 11.73         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 15       | 11.73         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 15       | 11.73         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 6        | 11.73         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 11       | 11.73         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 14       | 11.73         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 6        | 11.73         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 13       | 11.73         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 13       | 11.73         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 20       | 11.73         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 20       | 11.73         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 2        | 11.73         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 2        | 11.73         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 3        | 11.73         |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3 | 19       | 11.73         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE  | 18       | 11.73         |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H   | 9        | 11.72         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H   | 9        | 11.72         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 12       | 11.72         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 12       | 11.72         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 15       | 11.72         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 15       | 11.72         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 8        | 11.72         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 8        | 11.72         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 6        | 11.72         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 5        | 11.72         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 8        | 11.72         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 18       | 11.72         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 18       | 11.72         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 3        | 11.72         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 19       | 11.72         |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2 | 8        | 11.72         |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2 | 12       | 11.72         |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2 | 12       | 11.72         |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3 | 12       | 11.72         |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB3 | 12       | 11.72         |
| (1,4188) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA2 | 7        | 11.72         |
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H   | 18       | 11.72         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2  | 11       | 11.72         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3  | 11       | 11.72         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2  | 5        | 11.72         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3  | 5        | 11.72         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2  | 6        | 11.72         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3  | 6        | 11.72         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 10       | 11.72         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 17       | 11.72         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1  | 10       | 11.72         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2  | 10       | 11.72         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 16       | 11.72         |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 17       | 11.72         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 10       | 11.72         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 10       | 11.72         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 13       | 11.72         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 15       | 11.72         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 15       | 11.72         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3  | 15       | 11.72         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 10       | 11.72         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 10       | 11.72         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 1        | 11.72         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 2        | 11.72         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 15       | 11.72         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 4        | 11.72         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 1        | 11.72         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 13       | 11.72         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 13       | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 3        | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 3        | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 5        | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 5        | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 10       | 11.72         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 10       | 11.72         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 15       | 11.72         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 15       | 11.72         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 4        | 11.72         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 3        | 11.72         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 3        | 11.72         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 3        | 11.72         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA   | 9        | 11.72         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 19       | 11.72         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 19       | 11.72         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1716) | 1:A:6:GLN:HG2   | 1:A:22:GLN:HE22 | 11       | 11.72         |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA   | 15       | 11.72         |
| (1,1667) | 1:A:6:GLN:HB3   | 1:A:28:SER:HA   | 17       | 11.72         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG2  | 3        | 11.72         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG3  | 3        | 11.72         |
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB2  | 9        | 11.72         |
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB3  | 9        | 11.72         |
| (1,1275) | 1:A:4:ASN:HD21  | 1:A:20:CYS:H    | 14       | 11.72         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB2  | 7        | 11.72         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB3  | 7        | 11.72         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE21 | 15       | 11.72         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE22 | 15       | 11.72         |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG   | 6        | 11.72         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3   | 13       | 11.71         |
| (1,918)  | 1:A:3:PRO:HG2   | 1:A:20:CYS:H    | 18       | 11.71         |
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H    | 18       | 11.71         |
| (1,918)  | 1:A:3:PRO:HG2   | 1:A:20:CYS:H    | 20       | 11.71         |
| (1,918)  | 1:A:3:PRO:HG3   | 1:A:20:CYS:H    | 20       | 11.71         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2  | 17       | 11.71         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 8        | 11.71         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 8        | 11.71         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 11       | 11.71         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 11       | 11.71         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 1        | 11.71         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3  | 14       | 11.71         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H    | 2        | 11.71         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2  | 4        | 11.71         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3  | 4        | 11.71         |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1  | 10       | 11.71         |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1  | 10       | 11.71         |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H    | 2        | 11.71         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 9        | 11.71         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 9        | 11.71         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 14       | 11.71         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 12       | 11.71         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 15       | 11.71         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 2        | 11.71         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 2        | 11.71         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 2        | 11.71         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 2        | 11.71         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 10       | 11.71         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 2        | 11.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 5        | 11.71         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H    | 17       | 11.71         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 8        | 11.71         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 17       | 11.71         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 17       | 11.71         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 12       | 11.71         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 12       | 11.71         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 5        | 11.71         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 5        | 11.71         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 1        | 11.71         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 1        | 11.71         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 8        | 11.71         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 9        | 11.71         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 15       | 11.71         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 5        | 11.71         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 13       | 11.71         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 13       | 11.71         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 13       | 11.71         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 7        | 11.71         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 16       | 11.71         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 1        | 11.71         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 11       | 11.71         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 11       | 11.71         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 11       | 11.71         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 9        | 11.71         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 15       | 11.71         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 9        | 11.71         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1  | 1        | 11.71         |
| (1,2259) | 1:A:9:PRO:HB3  | 1:A:19:CYS:HA   | 17       | 11.71         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG2  | 14       | 11.71         |
| (1,2130) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HG3  | 14       | 11.71         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 13       | 11.71         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 14       | 11.71         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 9        | 11.71         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 18       | 11.71         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 18       | 11.71         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 8        | 11.71         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 7        | 11.71         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 18       | 11.71         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 19       | 11.71         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 14       | 11.71         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 14       | 11.71         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 14       | 11.71         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 20       | 11.71         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 20       | 11.71         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 1        | 11.71         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 20       | 11.71         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 20       | 11.71         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 7        | 11.71         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 8        | 11.71         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 5        | 11.71         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 17       | 11.71         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 17       | 11.71         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 7        | 11.7          |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 19       | 11.7          |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 16       | 11.7          |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 16       | 11.7          |
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 19       | 11.7          |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 19       | 11.7          |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 16       | 11.7          |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 16       | 11.7          |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3  | 5        | 11.7          |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3  | 14       | 11.7          |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 17       | 11.7          |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 19       | 11.7          |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 19       | 11.7          |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 20       | 11.7          |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 20       | 11.7          |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 5        | 11.7          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 3        | 11.7          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 3        | 11.7          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 3        | 11.7          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 3        | 11.7          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 3        | 11.7          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 3        | 11.7          |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 11       | 11.7          |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 11       | 11.7          |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 11       | 11.7          |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 11       | 11.7          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 14       | 11.7          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 14       | 11.7          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 14       | 11.7          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 14       | 11.7          |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 2        | 11.7          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H    | 14       | 11.7          |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2  | 1        | 11.7          |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2  | 1        | 11.7          |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2  | 10       | 11.7          |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2  | 10       | 11.7          |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3  | 10       | 11.7          |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3  | 10       | 11.7          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 9        | 11.7          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 9        | 11.7          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 10       | 11.7          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 10       | 11.7          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 7        | 11.7          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 7        | 11.7          |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 8        | 11.7          |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 8        | 11.7          |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 9        | 11.7          |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 9        | 11.7          |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 6        | 11.7          |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 6        | 11.7          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 1        | 11.7          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 1        | 11.7          |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2  | 13       | 11.7          |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 1        | 11.7          |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 12       | 11.7          |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 20       | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB1  | 4        | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB2  | 4        | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB3  | 4        | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB1  | 14       | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB2  | 14       | 11.7          |
| (1,3038) | 1:A:12:GLY:H    | 1:A:34:ALA:HB3  | 14       | 11.7          |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2  | 3        | 11.7          |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2  | 4        | 11.7          |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2  | 11       | 11.7          |
| (1,2672) | 1:A:11:TRP:HB2  | 1:A:34:ALA:HB1  | 15       | 11.7          |
| (1,2672) | 1:A:11:TRP:HB2  | 1:A:34:ALA:HB2  | 15       | 11.7          |
| (1,2672) | 1:A:11:TRP:HB2  | 1:A:34:ALA:HB3  | 15       | 11.7          |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 14       | 11.7          |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 10       | 11.7          |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 7        | 11.7          |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 8        | 11.7          |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 18       | 11.7          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 19       | 11.7          |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 20       | 11.7          |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 7        | 11.7          |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 10       | 11.7          |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 7        | 11.7          |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 20       | 11.7          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 19       | 11.7          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 19       | 11.7          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 9        | 11.7          |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 9        | 11.7          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 15       | 11.7          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 15       | 11.7          |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 7        | 11.7          |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 16       | 11.7          |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 20       | 11.7          |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 6        | 11.7          |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 17       | 11.7          |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 16       | 11.7          |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 16       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 18       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 18       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 18       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 19       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 19       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 19       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 20       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 20       | 11.7          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 20       | 11.7          |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 18       | 11.7          |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 18       | 11.7          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 11.7          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 11.7          |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 16       | 11.7          |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 16       | 11.7          |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG   | 20       | 11.7          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 4        | 11.7          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 4        | 11.7          |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 5        | 11.7          |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 5        | 11.7          |
| (1,1073) | 1:A:4:ASN:H    | 1:A:19:CYS:HB3  | 7        | 11.7          |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 11       | 11.69         |
| (1,955)  | 1:A:3:PRO:HD2  | 1:A:9:PRO:HB3   | 18       | 11.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,918)  | 1:A:3:PRO:HG2  | 1:A:20:CYS:H    | 7        | 11.69         |
| (1,918)  | 1:A:3:PRO:HG3  | 1:A:20:CYS:H    | 7        | 11.69         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 18       | 11.69         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 18       | 11.69         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 19       | 11.69         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 19       | 11.69         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H    | 9        | 11.69         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 13       | 11.69         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 3        | 11.69         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2  | 7        | 11.69         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3  | 7        | 11.69         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 4        | 11.69         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 4        | 11.69         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 5        | 11.69         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2  | 9        | 11.69         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2  | 9        | 11.69         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2  | 15       | 11.69         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2  | 15       | 11.69         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2  | 1        | 11.69         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2  | 1        | 11.69         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2  | 8        | 11.69         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2  | 8        | 11.69         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 20       | 11.69         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1  | 6        | 11.69         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 6        | 11.69         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 20       | 11.69         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 20       | 11.69         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 5        | 11.69         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 9        | 11.69         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 9        | 11.69         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 7        | 11.69         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 20       | 11.69         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 14       | 11.69         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H    | 20       | 11.69         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1  | 14       | 11.69         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2  | 14       | 11.69         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 2        | 11.69         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 8        | 11.69         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 8        | 11.69         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 10       | 11.69         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 6        | 11.69         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 20       | 11.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 1        | 11.69         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 11       | 11.69         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 15       | 11.69         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 9        | 11.69         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 13       | 11.69         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 16       | 11.69         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 2        | 11.69         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 2        | 11.69         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 7        | 11.69         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 12       | 11.69         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 18       | 11.69         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 19       | 11.69         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 12       | 11.69         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 12       | 11.69         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE2  | 18       | 11.69         |
| (1,2070) | 1:A:8:GLY:H    | 1:A:31:LYS:HE3  | 18       | 11.69         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H    | 4        | 11.69         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 16       | 11.69         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 20       | 11.69         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 7        | 11.69         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 7        | 11.69         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 14       | 11.69         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 14       | 11.69         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 12       | 11.69         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 12       | 11.69         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 12       | 11.69         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2  | 14       | 11.69         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3  | 14       | 11.69         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA2  | 19       | 11.69         |
| (1,1535) | 1:A:6:GLN:H    | 1:A:29:GLY:HA3  | 19       | 11.69         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 10       | 11.69         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 10       | 11.69         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 3        | 11.69         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 3        | 11.69         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA   | 7        | 11.69         |
| (1,1200) | 1:A:4:ASN:HB3  | 1:A:15:ARG:HE   | 14       | 11.69         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 2        | 11.69         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1  | 8        | 11.68         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2  | 8        | 11.68         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1  | 8        | 11.68         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2  | 8        | 11.68         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1  | 16       | 11.68         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 16       | 11.68         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 16       | 11.68         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 16       | 11.68         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 13       | 11.68         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 13       | 11.68         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 7        | 11.68         |
| (1,759)  | 1:A:3:PRO:HA   | 1:A:20:CYS:HB3 | 10       | 11.68         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 10       | 11.68         |
| (1,731)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:H   | 6        | 11.68         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 13       | 11.68         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 7        | 11.68         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 7        | 11.68         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 14       | 11.68         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 14       | 11.68         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 9        | 11.68         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 11       | 11.68         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 19       | 11.68         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 20       | 11.68         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1 | 5        | 11.68         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2 | 14       | 11.68         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 4        | 11.68         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 4        | 11.68         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2 | 5        | 11.68         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 15       | 11.68         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2 | 3        | 11.68         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3 | 3        | 11.68         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 20       | 11.68         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 20       | 11.68         |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 14       | 11.68         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 14       | 11.68         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H   | 19       | 11.68         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1 | 4        | 11.68         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2 | 4        | 11.68         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3 | 4        | 11.68         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE1 | 1        | 11.68         |
| (1,3266) | 1:A:15:ARG:H   | 1:A:23:TYR:HE2 | 1        | 11.68         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2 | 5        | 11.68         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1 | 5        | 11.68         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2 | 5        | 11.68         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG2 | 20       | 11.68         |
| (1,3163) | 1:A:13:GLY:HA3 | 1:A:31:LYS:HG3 | 20       | 11.68         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 5        | 11.68         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 5        | 11.68         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB2 | 17       | 11.68         |
| (1,3059) | 1:A:12:GLY:HA3 | 1:A:22:GLN:HB3 | 17       | 11.68         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3 | 3        | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1 | 2        | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2 | 2        | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 2        | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1 | 12       | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2 | 12       | 11.68         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 12       | 11.68         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 16       | 11.68         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 16       | 11.68         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 19       | 11.68         |
| (1,2909) | 1:A:11:TRP:HZ3 | 1:A:18:LEU:HB2 | 9        | 11.68         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 13       | 11.68         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 13       | 11.68         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H   | 12       | 11.68         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3 | 2        | 11.68         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 16       | 11.68         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 18       | 11.68         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 19       | 11.68         |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 20       | 11.68         |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 20       | 11.68         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 1        | 11.68         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 1        | 11.68         |
| (1,2291) | 1:A:9:PRO:HB3  | 1:A:35:HIS:HE1 | 17       | 11.68         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 9        | 11.68         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 20       | 11.68         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 4        | 11.68         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 7        | 11.68         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD1 | 17       | 11.68         |
| (1,2185) | 1:A:9:PRO:HA   | 1:A:32:TYR:HD2 | 17       | 11.68         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3 | 12       | 11.68         |
| (1,2152) | 1:A:9:PRO:HA   | 1:A:18:LEU:HB3 | 17       | 11.68         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 3        | 11.68         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 8        | 11.68         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 16       | 11.68         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA  | 18       | 11.68         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 19       | 11.68         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2 | 1        | 11.68         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3 | 1        | 11.68         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 11       | 11.68         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1290) | 1:A:4:ASN:HD21  | 1:A:28:SER:H   | 9        | 11.68         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 7        | 11.68         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 7        | 11.68         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2 | 20       | 11.68         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3 | 20       | 11.68         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2 | 6        | 11.67         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3 | 6        | 11.67         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 8        | 11.67         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 12       | 11.67         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1 | 12       | 11.67         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2 | 12       | 11.67         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1 | 12       | 11.67         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2 | 12       | 11.67         |
| (1,913)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:H   | 18       | 11.67         |
| (1,913)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:H   | 18       | 11.67         |
| (1,913)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:H   | 19       | 11.67         |
| (1,913)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:H   | 19       | 11.67         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE1 | 13       | 11.67         |
| (1,876)  | 1:A:3:PRO:HB3   | 1:A:32:TYR:HE2 | 13       | 11.67         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1 | 17       | 11.67         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2 | 17       | 11.67         |
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3 | 6        | 11.67         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H   | 5        | 11.67         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H   | 10       | 11.67         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1 | 15       | 11.67         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2 | 15       | 11.67         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2 | 18       | 11.67         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2 | 18       | 11.67         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3 | 18       | 11.67         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3 | 18       | 11.67         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 4        | 11.67         |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 2        | 11.67         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 8        | 11.67         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 8        | 11.67         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 11       | 11.67         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 11       | 11.67         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2 | 15       | 11.67         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2 | 15       | 11.67         |
| (1,4556) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HE1 | 7        | 11.67         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 8        | 11.67         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 8        | 11.67         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2 | 15       | 11.67         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 15       | 11.67         |
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG  | 17       | 11.67         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2 | 14       | 11.67         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 12       | 11.67         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 13       | 11.67         |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 13       | 11.67         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 13       | 11.67         |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 13       | 11.67         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 2        | 11.67         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 2        | 11.67         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H   | 1        | 11.67         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H   | 19       | 11.67         |
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA  | 7        | 11.67         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H   | 17       | 11.67         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 9        | 11.67         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2 | 11       | 11.67         |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H   | 5        | 11.67         |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H   | 6        | 11.67         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 12       | 11.67         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1 | 2        | 11.67         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2 | 2        | 11.67         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3 | 4        | 11.67         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 2        | 11.67         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 2        | 11.67         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3 | 2        | 11.67         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3 | 11       | 11.67         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 7        | 11.67         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 17       | 11.67         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 16       | 11.67         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H   | 14       | 11.67         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3 | 5        | 11.67         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3 | 14       | 11.67         |
| (1,2468) | 1:A:10:GLY:H   | 1:A:22:GLN:H   | 17       | 11.67         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 8        | 11.67         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 11       | 11.67         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 11       | 11.67         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 16       | 11.67         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 18       | 11.67         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 19       | 11.67         |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 3        | 11.67         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 13       | 11.67         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 8        | 11.67         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA   | 7        | 11.67         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA   | 16       | 11.67         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA   | 18       | 11.67         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA   | 19       | 11.67         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB2  | 16       | 11.67         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB3  | 16       | 11.67         |
| (1,1885) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HA   | 18       | 11.67         |
| (1,1885) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HA   | 19       | 11.67         |
| (1,1783) | 1:A:6:GLN:HG3   | 1:A:33:CYS:HA   | 19       | 11.67         |
| (1,1773) | 1:A:6:GLN:HG3   | 1:A:28:SER:HB3  | 16       | 11.67         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA2  | 8        | 11.67         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA3  | 8        | 11.67         |
| (1,1726) | 1:A:6:GLN:HG2   | 1:A:28:SER:H    | 6        | 11.67         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA2  | 16       | 11.67         |
| (1,1535) | 1:A:6:GLN:H     | 1:A:29:GLY:HA3  | 16       | 11.67         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 4        | 11.67         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 4        | 11.67         |
| (1,1337) | 1:A:4:ASN:HD22  | 1:A:15:ARG:H    | 8        | 11.67         |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3  | 16       | 11.67         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB2   | 1        | 11.67         |
| (1,1324) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HB3   | 1        | 11.67         |
| (1,1275) | 1:A:4:ASN:HD21  | 1:A:20:CYS:H    | 1        | 11.67         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA2  | 16       | 11.67         |
| (1,1230) | 1:A:4:ASN:HB3   | 1:A:29:GLY:HA3  | 16       | 11.67         |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE21 | 6        | 11.67         |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE22 | 6        | 11.67         |
| (1,1107) | 1:A:4:ASN:H     | 1:A:31:LYS:HZ1  | 8        | 11.67         |
| (1,1107) | 1:A:4:ASN:H     | 1:A:31:LYS:HZ2  | 8        | 11.67         |
| (1,1107) | 1:A:4:ASN:H     | 1:A:31:LYS:HZ3  | 8        | 11.67         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA2  | 13       | 11.67         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA3  | 13       | 11.67         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H    | 12       | 11.66         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3   | 16       | 11.66         |
| (1,731)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:H    | 14       | 11.66         |
| (1,4740) | 1:A:28:SER:H    | 1:A:35:HIS:HE1  | 10       | 11.66         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 11       | 11.66         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 11       | 11.66         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 16       | 11.66         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 19       | 11.66         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 19       | 11.66         |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 7        | 11.66         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 8        | 11.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE22 | 8        | 11.66         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2  | 12       | 11.66         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 10       | 11.66         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 18       | 11.66         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 17       | 11.66         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 15       | 11.66         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 15       | 11.66         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 17       | 11.66         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 17       | 11.66         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 20       | 11.66         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 12       | 11.66         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 12       | 11.66         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 12       | 11.66         |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 5        | 11.66         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 15       | 11.66         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 15       | 11.66         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 3        | 11.66         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 4        | 11.66         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 6        | 11.66         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 13       | 11.66         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 16       | 11.66         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 18       | 11.66         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 19       | 11.66         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 12       | 11.66         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 14       | 11.66         |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3  | 11       | 11.66         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 2        | 11.66         |
| (1,2494) | 1:A:10:GLY:HA2 | 1:A:21:SER:H    | 10       | 11.66         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 11       | 11.66         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 11       | 11.66         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 11       | 11.66         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 11       | 11.66         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 4        | 11.66         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 4        | 11.66         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 10       | 11.66         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 10       | 11.66         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 16       | 11.66         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 18       | 11.66         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 19       | 11.66         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 20       | 11.66         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 17       | 11.66         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 17       | 11.66         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 7        | 11.66         |
| (1,1885) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HA  | 20       | 11.66         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 5        | 11.66         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3 | 18       | 11.66         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA  | 1        | 11.66         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 7        | 11.66         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 16       | 11.66         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 9        | 11.66         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 8        | 11.66         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 13       | 11.66         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 1        | 11.66         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 1        | 11.66         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 1        | 11.66         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 11       | 11.66         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 4        | 11.66         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 1        | 11.65         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG  | 6        | 11.65         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 7        | 11.65         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 7        | 11.65         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 17       | 11.65         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 17       | 11.65         |
| (1,787)  | 1:A:3:PRO:HB2  | 1:A:16:GLY:HA3 | 9        | 11.65         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3 | 2        | 11.65         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 3        | 11.65         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 3        | 11.65         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 3        | 11.65         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 3        | 11.65         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 5        | 11.65         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 5        | 11.65         |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1 | 9        | 11.65         |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1 | 9        | 11.65         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 9        | 11.65         |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H   | 13       | 11.65         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 18       | 11.65         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 7        | 11.65         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 19       | 11.65         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H   | 7        | 11.65         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1 | 17       | 11.65         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2 | 17       | 11.65         |
| (1,3318) | 1:A:15:ARG:HB2 | 1:A:34:ALA:HA  | 1        | 11.65         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1 | 19       | 11.65         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2 | 19       | 11.65         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 14       | 11.65         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 14       | 11.65         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 4        | 11.65         |
| (1,3043) | 1:A:12:GLY:HA2 | 1:A:27:GLY:HA3  | 5        | 11.65         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 2        | 11.65         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 3        | 11.65         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 5        | 11.65         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 10       | 11.65         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 14       | 11.65         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 14       | 11.65         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 5        | 11.65         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 5        | 11.65         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 6        | 11.65         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 6        | 11.65         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 5        | 11.65         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 5        | 11.65         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA   | 8        | 11.65         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 1        | 11.65         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 16       | 11.65         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 17       | 11.65         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 11       | 11.65         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 11       | 11.65         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2  | 20       | 11.65         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3  | 20       | 11.65         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 4        | 11.65         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H    | 5        | 11.65         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 4        | 11.65         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 6        | 11.65         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 6        | 11.65         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 12       | 11.65         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 3        | 11.65         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2   | 20       | 11.65         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3   | 20       | 11.65         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H    | 11       | 11.65         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 8        | 11.65         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 8        | 11.65         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 19       | 11.65         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 19       | 11.65         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2  | 8        | 11.65         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3  | 8        | 11.65         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 2        | 11.65         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 2        | 11.65         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 4        | 11.65         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3  | 2        | 11.64         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3  | 6        | 11.64         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 4        | 11.64         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA   | 9        | 11.64         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA   | 9        | 11.64         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 17       | 11.64         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3  | 2        | 11.64         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2  | 10       | 11.64         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3  | 10       | 11.64         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2  | 14       | 11.64         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3  | 14       | 11.64         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 14       | 11.64         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 14       | 11.64         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 13       | 11.64         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 13       | 11.64         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2  | 2        | 11.64         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3  | 2        | 11.64         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 16       | 11.64         |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H    | 16       | 11.64         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 20       | 11.64         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 20       | 11.64         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H    | 12       | 11.64         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE1  | 1        | 11.64         |
| (1,3339) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HE2  | 1        | 11.64         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 3        | 11.64         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2  | 9        | 11.64         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3  | 9        | 11.64         |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H    | 6        | 11.64         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 8        | 11.64         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 8        | 11.64         |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 6        | 11.64         |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 7        | 11.64         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB2  | 1        | 11.64         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB3  | 1        | 11.64         |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 2        | 11.64         |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 4        | 11.64         |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 12       | 11.64         |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 4        | 11.64         |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 5        | 11.64         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 13       | 11.64         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 18       | 11.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 15       | 11.64         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 20       | 11.64         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 20       | 11.64         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 12       | 11.64         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA   | 12       | 11.64         |
| (1,1783) | 1:A:6:GLN:HG3  | 1:A:33:CYS:HA   | 7        | 11.64         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 2        | 11.64         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 3        | 11.64         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 11       | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 7        | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 7        | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 7        | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 16       | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 16       | 11.64         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 16       | 11.64         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 17       | 11.64         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1  | 4        | 11.64         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2  | 4        | 11.64         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3  | 4        | 11.64         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 3        | 11.64         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 3        | 11.64         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 13       | 11.64         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 13       | 11.64         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 14       | 11.64         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2  | 8        | 11.64         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3  | 8        | 11.64         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H    | 18       | 11.64         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 6        | 11.64         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 4        | 11.64         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 13       | 11.64         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 13       | 11.64         |
| (1,1201) | 1:A:4:ASN:HB3  | 1:A:16:GLY:HA3  | 8        | 11.64         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ1  | 18       | 11.64         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ2  | 18       | 11.64         |
| (1,1107) | 1:A:4:ASN:H    | 1:A:31:LYS:HZ3  | 18       | 11.64         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1  | 5        | 11.64         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2  | 5        | 11.64         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 3        | 11.64         |
| (1,784)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:HA3  | 5        | 11.63         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA   | 10       | 11.63         |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H    | 14       | 11.63         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2  | 14       | 11.63         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 7        | 11.63         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 16       | 11.63         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 16       | 11.63         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 8        | 11.63         |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H    | 12       | 11.63         |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H    | 20       | 11.63         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 6        | 11.63         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 6        | 11.63         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 6        | 11.63         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 6        | 11.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1  | 5        | 11.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2  | 5        | 11.63         |
| (1,3265) | 1:A:15:ARG:H    | 1:A:23:TYR:HB3  | 7        | 11.63         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1  | 9        | 11.63         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2  | 9        | 11.63         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 8        | 11.63         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 8        | 11.63         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 4        | 11.63         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 4        | 11.63         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 18       | 11.63         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 18       | 11.63         |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2  | 15       | 11.63         |
| (1,2859) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HG2  | 5        | 11.63         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA   | 1        | 11.63         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA   | 11       | 11.63         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2  | 8        | 11.63         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3  | 8        | 11.63         |
| (1,2681) | 1:A:11:TRP:HB3  | 1:A:17:GLY:H    | 14       | 11.63         |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 12       | 11.63         |
| (1,2529) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HB2  | 15       | 11.63         |
| (1,2529) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HB3  | 15       | 11.63         |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 3        | 11.63         |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H    | 6        | 11.63         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 3        | 11.63         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 8        | 11.63         |
| (1,2464) | 1:A:10:GLY:H    | 1:A:19:CYS:HB3  | 4        | 11.63         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA   | 14       | 11.63         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE1  | 17       | 11.63         |
| (1,2219) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HE2  | 17       | 11.63         |
| (1,2212) | 1:A:9:PRO:HB2   | 1:A:21:SER:HG   | 20       | 11.63         |
| (1,1964) | 1:A:7:CYS:H     | 1:A:31:LYS:HB2  | 1        | 11.63         |
| (1,1892) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HA   | 2        | 11.63         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1891) | 1:A:6:GLN:HE22  | 1:A:22:GLN:H    | 3        | 11.63         |
| (1,1886) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HB2  | 4        | 11.63         |
| (1,1886) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HB3  | 4        | 11.63         |
| (1,1817) | 1:A:6:GLN:HE21  | 1:A:19:CYS:H    | 4        | 11.63         |
| (1,1726) | 1:A:6:GLN:HG2   | 1:A:28:SER:H    | 2        | 11.63         |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA   | 6        | 11.63         |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA   | 18       | 11.63         |
| (1,1685) | 1:A:6:GLN:HB3   | 1:A:33:CYS:HA   | 20       | 11.63         |
| (1,1633) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HE   | 8        | 11.63         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB2  | 4        | 11.63         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB3  | 4        | 11.63         |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB1  | 3        | 11.63         |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB2  | 3        | 11.63         |
| (1,1499) | 1:A:5:GLY:HA3   | 1:A:34:ALA:HB3  | 3        | 11.63         |
| (1,1498) | 1:A:5:GLY:HA3   | 1:A:34:ALA:H    | 14       | 11.63         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB2  | 14       | 11.63         |
| (1,1274) | 1:A:4:ASN:HD21  | 1:A:19:CYS:HB3  | 14       | 11.63         |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG   | 2        | 11.63         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2   | 12       | 11.63         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3   | 12       | 11.63         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2   | 18       | 11.63         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3   | 18       | 11.63         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE21 | 19       | 11.63         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE22 | 19       | 11.63         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3  | 1        | 11.63         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA2  | 2        | 11.63         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA3  | 2        | 11.63         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA2  | 12       | 11.63         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA3  | 12       | 11.63         |
| (1,964)  | 1:A:3:PRO:HD2   | 1:A:20:CYS:HB3  | 5        | 11.62         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 11       | 11.62         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 11       | 11.62         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 11       | 11.62         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 11       | 11.62         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3  | 16       | 11.62         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE1  | 3        | 11.62         |
| (1,639)  | 1:A:2:GLY:H     | 1:A:23:TYR:HE2  | 3        | 11.62         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 15       | 11.62         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 15       | 11.62         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 7        | 11.62         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 7        | 11.62         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 3        | 11.62         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG2  | 10       | 11.62         |
| (1,3540) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HG3  | 10       | 11.62         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 8        | 11.62         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 9        | 11.62         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 12       | 11.62         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 12       | 11.62         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 11       | 11.62         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 11       | 11.62         |
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA   | 20       | 11.62         |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 4        | 11.62         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 18       | 11.62         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 18       | 11.62         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 9        | 11.62         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 9        | 11.62         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 6        | 11.62         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2  | 8        | 11.62         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 9        | 11.62         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 9        | 11.62         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 15       | 11.62         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 20       | 11.62         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 1        | 11.62         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 3        | 11.62         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3  | 6        | 11.62         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 13       | 11.62         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 13       | 11.62         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 13       | 11.62         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 13       | 11.62         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 1        | 11.62         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 1        | 11.62         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 8        | 11.62         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 13       | 11.62         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD2  | 8        | 11.62         |
| (1,2132) | 1:A:8:GLY:HA3  | 1:A:31:LYS:HD3  | 8        | 11.62         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 8        | 11.62         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 3        | 11.62         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 3        | 11.62         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 3        | 11.62         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 3        | 11.62         |
| (1,1773) | 1:A:6:GLN:HG3  | 1:A:28:SER:HB3  | 20       | 11.62         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 16       | 11.62         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA   | 19       | 11.62         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 5        | 11.62         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 12       | 11.62         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 20       | 11.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 9        | 11.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 9        | 11.62         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 9        | 11.62         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1 | 13       | 11.62         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2 | 13       | 11.62         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3 | 13       | 11.62         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 19       | 11.62         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 19       | 11.62         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 18       | 11.62         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 18       | 11.62         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 18       | 11.62         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H   | 3        | 11.62         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2 | 18       | 11.62         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3 | 18       | 11.62         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 18       | 11.62         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 10       | 11.62         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 10       | 11.62         |
| (1,964)  | 1:A:3:PRO:HD2  | 1:A:20:CYS:HB3 | 10       | 11.61         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 15       | 11.61         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG  | 3        | 11.61         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2 | 10       | 11.61         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3 | 10       | 11.61         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 7        | 11.61         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 7        | 11.61         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 8        | 11.61         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 8        | 11.61         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H   | 17       | 11.61         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 11       | 11.61         |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 18       | 11.61         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 18       | 11.61         |
| (1,740)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HB3 | 20       | 11.61         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 12       | 11.61         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 12       | 11.61         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 12       | 11.61         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 12       | 11.61         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 12       | 11.61         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 12       | 11.61         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 3        | 11.61         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 3        | 11.61         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 14       | 11.61         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 14       | 11.61         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 14       | 11.61         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 9        | 11.61         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 9        | 11.61         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 2        | 11.61         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2 | 20       | 11.61         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2 | 11       | 11.61         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3 | 11       | 11.61         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2 | 4        | 11.61         |
| (1,3515) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB3 | 17       | 11.61         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 4        | 11.61         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 4        | 11.61         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD1 | 12       | 11.61         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD2 | 12       | 11.61         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD1 | 12       | 11.61         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD2 | 12       | 11.61         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2 | 12       | 11.61         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3 | 12       | 11.61         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H   | 12       | 11.61         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2 | 18       | 11.61         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3 | 18       | 11.61         |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H   | 3        | 11.61         |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H   | 10       | 11.61         |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H   | 2        | 11.61         |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H   | 4        | 11.61         |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H   | 10       | 11.61         |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3 | 10       | 11.61         |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3 | 15       | 11.61         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD1 | 7        | 11.61         |
| (1,3109) | 1:A:13:GLY:H    | 1:A:23:TYR:HD2 | 7        | 11.61         |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2 | 12       | 11.61         |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2 | 18       | 11.61         |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2 | 19       | 11.61         |
| (1,2971) | 1:A:11:TRP:HH2  | 1:A:20:CYS:HB2 | 20       | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 7        | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 8        | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 16       | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 18       | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 19       | 11.61         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA  | 20       | 11.61         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3 | 19       | 11.61         |
| (1,2321) | 1:A:9:PRO:HG2   | 1:A:21:SER:HB2 | 11       | 11.61         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 12       | 11.61         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 8        | 11.61         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 10       | 11.61         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 5        | 11.61         |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA  | 9        | 11.61         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 13       | 11.61         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 10       | 11.61         |
| (1,1368) | 1:A:4:ASN:HD22 | 1:A:28:SER:H   | 19       | 11.61         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 19       | 11.61         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 15       | 11.61         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 10       | 11.61         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 10       | 11.61         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2  | 7        | 11.61         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3  | 7        | 11.61         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2  | 11       | 11.61         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3  | 11       | 11.61         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA2 | 19       | 11.61         |
| (1,1230) | 1:A:4:ASN:HB3  | 1:A:29:GLY:HA3 | 19       | 11.61         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H   | 3        | 11.61         |
| (1,1080) | 1:A:4:ASN:H    | 1:A:22:GLN:HG2 | 10       | 11.61         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H   | 20       | 11.6          |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H   | 20       | 11.6          |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 9        | 11.6          |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 8        | 11.6          |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 16       | 11.6          |
| (1,792)  | 1:A:3:PRO:HB2  | 1:A:19:CYS:H   | 19       | 11.6          |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H   | 16       | 11.6          |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H   | 19       | 11.6          |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 14       | 11.6          |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 14       | 11.6          |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 13       | 11.6          |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 13       | 11.6          |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 20       | 11.6          |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 20       | 11.6          |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2 | 20       | 11.6          |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 8        | 11.6          |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 18       | 11.6          |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 19       | 11.6          |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 4        | 11.6          |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2 | 15       | 11.6          |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3 | 15       | 11.6          |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2 | 15       | 11.6          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3 | 15       | 11.6          |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 8        | 11.6          |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 8        | 11.6          |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 14       | 11.6          |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 14       | 11.6          |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 6        | 11.6          |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 6        | 11.6          |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 8        | 11.6          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H   | 2        | 11.6          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H   | 3        | 11.6          |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1 | 16       | 11.6          |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2 | 16       | 11.6          |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 18       | 11.6          |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2 | 7        | 11.6          |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2 | 16       | 11.6          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 15       | 11.6          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 15       | 11.6          |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA  | 15       | 11.6          |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA  | 8        | 11.6          |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA  | 18       | 11.6          |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA  | 19       | 11.6          |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 8        | 11.6          |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 11       | 11.6          |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 20       | 11.6          |
| (1,2508) | 1:A:10:GLY:HA2 | 1:A:26:CYS:HB3 | 13       | 11.6          |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 14       | 11.6          |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 9        | 11.6          |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 9        | 11.6          |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 16       | 11.6          |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 3        | 11.6          |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 4        | 11.6          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 4        | 11.6          |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 9        | 11.6          |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2 | 9        | 11.6          |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3 | 9        | 11.6          |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 4        | 11.6          |
| (1,1685) | 1:A:6:GLN:HB3  | 1:A:33:CYS:HA  | 7        | 11.6          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 2        | 11.6          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 2        | 11.6          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 2        | 11.6          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2 | 6        | 11.6          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 6        | 11.6          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB2  | 10       | 11.6          |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB3  | 10       | 11.6          |
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2   | 2        | 11.6          |
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2   | 5        | 11.6          |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H    | 4        | 11.6          |
| (1,1260) | 1:A:4:ASN:HD21  | 1:A:14:CYS:H    | 13       | 11.6          |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2   | 16       | 11.6          |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3   | 16       | 11.6          |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA   | 17       | 11.6          |
| (1,1185) | 1:A:4:ASN:HB3   | 1:A:9:PRO:HA    | 19       | 11.6          |
| (1,1098) | 1:A:4:ASN:H     | 1:A:28:SER:HB3  | 16       | 11.6          |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE   | 12       | 11.6          |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1  | 17       | 11.59         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2  | 17       | 11.59         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H    | 11       | 11.59         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 11       | 11.59         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 3        | 11.59         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 3        | 11.59         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 17       | 11.59         |
| (1,792)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:H    | 20       | 11.59         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 12       | 11.59         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 15       | 11.59         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 18       | 11.59         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 20       | 11.59         |
| (1,784)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:HA3  | 10       | 11.59         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2  | 4        | 11.59         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3  | 4        | 11.59         |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1  | 10       | 11.59         |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2  | 20       | 11.59         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 3        | 11.59         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 3        | 11.59         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 6        | 11.59         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 6        | 11.59         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2  | 19       | 11.59         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2  | 19       | 11.59         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 12       | 11.59         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 13       | 11.59         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 19       | 11.59         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 19       | 11.59         |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1  | 8        | 11.59         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 18       | 11.59         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 18       | 11.59         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 18       | 11.59         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 19       | 11.59         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 19       | 11.59         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 5        | 11.59         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2  | 13       | 11.59         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3  | 13       | 11.59         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 12       | 11.59         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 12       | 11.59         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 9        | 11.59         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 10       | 11.59         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1  | 6        | 11.59         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2  | 6        | 11.59         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA   | 15       | 11.59         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 4        | 11.59         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 6        | 11.59         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2  | 12       | 11.59         |
| (1,3003) | 1:A:12:GLY:H    | 1:A:22:GLN:HG2  | 17       | 11.59         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2  | 18       | 11.59         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3  | 18       | 11.59         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2  | 19       | 11.59         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3  | 19       | 11.59         |
| (1,2850) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HA   | 12       | 11.59         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2  | 9        | 11.59         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3  | 9        | 11.59         |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 13       | 11.59         |
| (1,2669) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HA   | 16       | 11.59         |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 19       | 11.59         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 4        | 11.59         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 9        | 11.59         |
| (1,2471) | 1:A:10:GLY:H    | 1:A:23:TYR:HB3  | 12       | 11.59         |
| (1,2456) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HD2  | 5        | 11.59         |
| (1,2456) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HD2  | 5        | 11.59         |
| (1,2434) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HG   | 2        | 11.59         |
| (1,2434) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HG   | 2        | 11.59         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2  | 7        | 11.59         |
| (1,2321) | 1:A:9:PRO:HG2   | 1:A:21:SER:HB2  | 1        | 11.59         |
| (1,2317) | 1:A:9:PRO:HG2   | 1:A:19:CYS:HA   | 12       | 11.59         |
| (1,2212) | 1:A:9:PRO:HB2   | 1:A:21:SER:HG   | 12       | 11.59         |
| (1,2165) | 1:A:9:PRO:HA    | 1:A:23:TYR:HB3  | 7        | 11.59         |
| (1,1892) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HA   | 5        | 11.59         |
| (1,1818) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HA   | 8        | 11.59         |
| (1,1818) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HA   | 16       | 11.59         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 14       | 11.59         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 14       | 11.59         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 14       | 11.59         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 18       | 11.59         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 18       | 11.59         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 12       | 11.59         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 8        | 11.59         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 4        | 11.59         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 4        | 11.59         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 20       | 11.58         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 20       | 11.58         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 20       | 11.58         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 20       | 11.58         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 1        | 11.58         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 12       | 11.58         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 20       | 11.58         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1 | 10       | 11.58         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2 | 10       | 11.58         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 20       | 11.58         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 20       | 11.58         |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 5        | 11.58         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 18       | 11.58         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 18       | 11.58         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 2        | 11.58         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 2        | 11.58         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 8        | 11.58         |
| (1,4186) | 1:A:22:GLN:HG2 | 1:A:29:GLY:H   | 11       | 11.58         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2 | 7        | 11.58         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 2        | 11.58         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 15       | 11.58         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3 | 6        | 11.58         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3 | 6        | 11.58         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1 | 18       | 11.58         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2 | 18       | 11.58         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1 | 18       | 11.58         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2 | 18       | 11.58         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 8        | 11.58         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 8        | 11.58         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 18       | 11.58         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2 | 3        | 11.58         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 9        | 11.58         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 9        | 11.58         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 7        | 11.58         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 7        | 11.58         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 9        | 11.58         |
| (1,2971) | 1:A:11:TRP:HH2 | 1:A:20:CYS:HB2 | 9        | 11.58         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 3        | 11.58         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 3        | 11.58         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 13       | 11.58         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 18       | 11.58         |
| (1,2549) | 1:A:10:GLY:HA3 | 1:A:23:TYR:H   | 17       | 11.58         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 13       | 11.58         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 13       | 11.58         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 12       | 11.58         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2 | 9        | 11.58         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 13       | 11.58         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 10       | 11.58         |
| (1,1893) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HG2 | 10       | 11.58         |
| (1,1892) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HA  | 6        | 11.58         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 7        | 11.58         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 18       | 11.58         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 19       | 11.58         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 10       | 11.58         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 3        | 11.58         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 9        | 11.58         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 11.58         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 11.58         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 11.58         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 3        | 11.58         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 6        | 11.58         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 7        | 11.58         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 7        | 11.58         |
| (1,1345) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HG  | 7        | 11.58         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2  | 15       | 11.58         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3  | 15       | 11.58         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 9        | 11.58         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 7        | 11.58         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 12       | 11.58         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 18       | 11.58         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 13       | 11.57         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 13       | 11.57         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 13       | 11.57         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 13       | 11.57         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 10       | 11.57         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1 | 6        | 11.57         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2 | 6        | 11.57         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1 | 18       | 11.57         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2 | 18       | 11.57         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2 | 19       | 11.57         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H   | 7        | 11.57         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H   | 11       | 11.57         |
| (1,740)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HB3 | 19       | 11.57         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 10       | 11.57         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2 | 19       | 11.57         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2 | 19       | 11.57         |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 12       | 11.57         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2 | 9        | 11.57         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 5        | 11.57         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 5        | 11.57         |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 2        | 11.57         |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 11       | 11.57         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 20       | 11.57         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 20       | 11.57         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 20       | 11.57         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1 | 18       | 11.57         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2 | 18       | 11.57         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2 | 20       | 11.57         |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 8        | 11.57         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 8        | 11.57         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 9        | 11.57         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 3        | 11.57         |
| (1,3300) | 1:A:15:ARG:HB2  | 1:A:24:GLY:H   | 19       | 11.57         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3 | 5        | 11.57         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3 | 8        | 11.57         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2 | 2        | 11.57         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3 | 2        | 11.57         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2 | 19       | 11.57         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 1        | 11.57         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 1        | 11.57         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE1 | 1        | 11.57         |
| (1,3081) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HE2 | 1        | 11.57         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2 | 11       | 11.57         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3 | 11       | 11.57         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2 | 20       | 11.57         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3 | 20       | 11.57         |
| (1,2939) | 1:A:11:TRP:HZ2  | 1:A:14:CYS:HB3 | 14       | 11.57         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA  | 17       | 11.57         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 12       | 11.57         |
| (1,2451) | 1:A:9:PRO:HD2  | 1:A:32:TYR:H   | 17       | 11.57         |
| (1,2451) | 1:A:9:PRO:HD3  | 1:A:32:TYR:H   | 17       | 11.57         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 15       | 11.57         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 10       | 11.57         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 18       | 11.57         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 19       | 11.57         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 17       | 11.57         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 17       | 11.57         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 10       | 11.57         |
| (1,1818) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HA  | 20       | 11.57         |
| (1,1692) | 1:A:6:GLN:HB3  | 1:A:35:HIS:HB2 | 1        | 11.57         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 12       | 11.57         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 12       | 11.57         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 12       | 11.57         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 3        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1 | 2        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2 | 2        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3 | 2        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1 | 8        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2 | 8        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3 | 8        | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB1 | 15       | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB2 | 15       | 11.57         |
| (1,1545) | 1:A:6:GLN:H    | 1:A:34:ALA:HB3 | 15       | 11.57         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 4        | 11.57         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 15       | 11.57         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 17       | 11.57         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3 | 20       | 11.57         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3 | 19       | 11.57         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 5        | 11.57         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 14       | 11.57         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 7        | 11.56         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 7        | 11.56         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 7        | 11.56         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 7        | 11.56         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 14       | 11.56         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 14       | 11.56         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 14       | 11.56         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 14       | 11.56         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 1        | 11.56         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 1        | 11.56         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 4        | 11.56         |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 4        | 11.56         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 14       | 11.56         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 14       | 11.56         |
| (1,4674) | 1:A:26:CYS:HB3 | 1:A:35:HIS:HE1 | 13       | 11.56         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG2 | 2        | 11.56         |
| (1,4588) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HG3 | 2        | 11.56         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG2 | 2        | 11.56         |
| (1,4588) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HG3 | 2        | 11.56         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2 | 20       | 11.56         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2 | 20       | 11.56         |
| (1,4553) | 1:A:25:TYR:HB3 | 1:A:34:ALA:HA  | 15       | 11.56         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2 | 8        | 11.56         |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 13       | 11.56         |
| (1,4384) | 1:A:23:TYR:HB2 | 1:A:35:HIS:H   | 8        | 11.56         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 6        | 11.56         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 18       | 11.56         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3 | 13       | 11.56         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 13       | 11.56         |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3 | 3        | 11.56         |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2 | 14       | 11.56         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 1        | 11.56         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H   | 13       | 11.56         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3 | 5        | 11.56         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 10       | 11.56         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 10       | 11.56         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3 | 14       | 11.56         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 2        | 11.56         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 2        | 11.56         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 11       | 11.56         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 11       | 11.56         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 8        | 11.56         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 8        | 11.56         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 13       | 11.56         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 13       | 11.56         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 4        | 11.56         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 4        | 11.56         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA  | 3        | 11.56         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 13       | 11.56         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 17       | 11.56         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 9        | 11.56         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2508) | 1:A:10:GLY:HA2  | 1:A:26:CYS:HB3 | 17       | 11.56         |
| (1,2434) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HG  | 1        | 11.56         |
| (1,2434) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HG  | 1        | 11.56         |
| (1,2398) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HB3 | 7        | 11.56         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2 | 18       | 11.56         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2 | 19       | 11.56         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2 | 20       | 11.56         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE1 | 7        | 11.56         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE2 | 7        | 11.56         |
| (1,2217) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HB2 | 3        | 11.56         |
| (1,2191) | 1:A:9:PRO:HA    | 1:A:35:HIS:HD2 | 1        | 11.56         |
| (1,2165) | 1:A:9:PRO:HA    | 1:A:23:TYR:HB3 | 2        | 11.56         |
| (1,2109) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HG  | 7        | 11.56         |
| (1,2109) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HG  | 9        | 11.56         |
| (1,2109) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HG  | 20       | 11.56         |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA  | 5        | 11.56         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3 | 12       | 11.56         |
| (1,1137) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HE  | 14       | 11.56         |
| (1,955)  | 1:A:3:PRO:HD2   | 1:A:9:PRO:HB3  | 9        | 11.55         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1 | 18       | 11.55         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2 | 18       | 11.55         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1 | 18       | 11.55         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2 | 18       | 11.55         |
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA  | 11       | 11.55         |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA  | 11       | 11.55         |
| (1,910)  | 1:A:3:PRO:HG2   | 1:A:16:GLY:HA3 | 20       | 11.55         |
| (1,910)  | 1:A:3:PRO:HG3   | 1:A:16:GLY:HA3 | 20       | 11.55         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2 | 12       | 11.55         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 3        | 11.55         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 3        | 11.55         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 10       | 11.55         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 10       | 11.55         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H   | 8        | 11.55         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 3        | 11.55         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 3        | 11.55         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 8        | 11.55         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 17       | 11.55         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 17       | 11.55         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2 | 18       | 11.55         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2 | 18       | 11.55         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 4        | 11.55         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1 | 12       | 11.55         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 12       | 11.55         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1  | 17       | 11.55         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 17       | 11.55         |
| (1,3565) | 1:A:17:GLY:H   | 1:A:24:GLY:HA2  | 9        | 11.55         |
| (1,3468) | 1:A:16:GLY:H   | 1:A:25:TYR:H    | 11       | 11.55         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2  | 9        | 11.55         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3  | 9        | 11.55         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1  | 18       | 11.55         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2  | 18       | 11.55         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 9        | 11.55         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 12       | 11.55         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 20       | 11.55         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 5        | 11.55         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 5        | 11.55         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 12       | 11.55         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 20       | 11.55         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 20       | 11.55         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 1        | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 4        | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 4        | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 8        | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 8        | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 12       | 11.55         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 12       | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 1        | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 1        | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 12       | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 12       | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 15       | 11.55         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 15       | 11.55         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 4        | 11.55         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 4        | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 2        | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 2        | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 6        | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 6        | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 10       | 11.55         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 10       | 11.55         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB1  | 8        | 11.55         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB2  | 8        | 11.55         |
| (1,2672) | 1:A:11:TRP:HB2 | 1:A:34:ALA:HB3  | 8        | 11.55         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 7        | 11.55         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 10       | 11.55         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 10       | 11.55         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 15       | 11.55         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 15       | 11.55         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA   | 15       | 11.55         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 10       | 11.55         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 14       | 11.55         |
| (1,1964) | 1:A:7:CYS:H    | 1:A:31:LYS:HB2  | 15       | 11.55         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 2        | 11.55         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 14       | 11.55         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 8        | 11.55         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 2        | 11.55         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 2        | 11.55         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 5        | 11.55         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 5        | 11.55         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 17       | 11.55         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 12       | 11.55         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 11       | 11.55         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 13       | 11.55         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 10       | 11.55         |
| (1,1098) | 1:A:4:ASN:H    | 1:A:28:SER:HB3  | 20       | 11.55         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 11       | 11.55         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 15       | 11.55         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1  | 1        | 11.54         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2  | 1        | 11.54         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1  | 1        | 11.54         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2  | 1        | 11.54         |
| (1,913)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:H    | 9        | 11.54         |
| (1,913)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:H    | 9        | 11.54         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 12       | 11.54         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 7        | 11.54         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 7        | 11.54         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2  | 18       | 11.54         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 6        | 11.54         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 6        | 11.54         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 13       | 11.54         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 13       | 11.54         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 13       | 11.54         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 13       | 11.54         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 3        | 11.54         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 3        | 11.54         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 3        | 11.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 3        | 11.54         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 17       | 11.54         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3  | 10       | 11.54         |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2  | 15       | 11.54         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2  | 3        | 11.54         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2  | 13       | 11.54         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2  | 13       | 11.54         |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB2  | 15       | 11.54         |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB3  | 15       | 11.54         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2  | 13       | 11.54         |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 20       | 11.54         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 1        | 11.54         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 1        | 11.54         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 7        | 11.54         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 7        | 11.54         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H    | 19       | 11.54         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 14       | 11.54         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 14       | 11.54         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1  | 19       | 11.54         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2  | 19       | 11.54         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 7        | 11.54         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 18       | 11.54         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 2        | 11.54         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 2        | 11.54         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2  | 2        | 11.54         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 7        | 11.54         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 6        | 11.54         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 9        | 11.54         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 10       | 11.54         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 15       | 11.54         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 15       | 11.54         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB2  | 17       | 11.54         |
| (1,2888) | 1:A:11:TRP:HE1 | 1:A:32:TYR:HB3  | 17       | 11.54         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 15       | 11.54         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 6        | 11.54         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 19       | 11.54         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 19       | 11.54         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 19       | 11.54         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 19       | 11.54         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 10       | 11.54         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 10       | 11.54         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2  | 17       | 11.54         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2385) | 1:A:9:PRO:HG3   | 1:A:21:SER:HB2 | 11       | 11.54         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2 | 16       | 11.54         |
| (1,1886) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HB2 | 13       | 11.54         |
| (1,1886) | 1:A:6:GLN:HE22  | 1:A:19:CYS:HB3 | 13       | 11.54         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2 | 17       | 11.54         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 17       | 11.54         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA2 | 15       | 11.54         |
| (1,1752) | 1:A:6:GLN:HG3   | 1:A:17:GLY:HA3 | 15       | 11.54         |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA  | 10       | 11.54         |
| (1,1594) | 1:A:6:GLN:HB2   | 1:A:16:GLY:H   | 9        | 11.54         |
| (1,1585) | 1:A:6:GLN:HA    | 1:A:35:HIS:HD2 | 11       | 11.54         |
| (1,1498) | 1:A:5:GLY:HA3   | 1:A:34:ALA:H   | 15       | 11.54         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG2 | 15       | 11.54         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG3 | 15       | 11.54         |
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2  | 1        | 11.54         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB2 | 9        | 11.54         |
| (1,1338) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HB3 | 9        | 11.54         |
| (1,1290) | 1:A:4:ASN:HD21  | 1:A:28:SER:H   | 1        | 11.54         |
| (1,1275) | 1:A:4:ASN:HD21  | 1:A:20:CYS:H   | 9        | 11.54         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG2 | 13       | 11.54         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG3 | 13       | 11.54         |
| (1,1185) | 1:A:4:ASN:HB3   | 1:A:9:PRO:HA   | 16       | 11.54         |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG  | 2        | 11.54         |
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA  | 15       | 11.53         |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA  | 15       | 11.53         |
| (1,910)  | 1:A:3:PRO:HG2   | 1:A:16:GLY:HA3 | 12       | 11.53         |
| (1,910)  | 1:A:3:PRO:HG3   | 1:A:16:GLY:HA3 | 12       | 11.53         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2 | 13       | 11.53         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2 | 15       | 11.53         |
| (1,792)  | 1:A:3:PRO:HB2   | 1:A:19:CYS:H   | 7        | 11.53         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2 | 16       | 11.53         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2 | 16       | 11.53         |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 13       | 11.53         |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 15       | 11.53         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2 | 13       | 11.53         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 19       | 11.53         |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 8        | 11.53         |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 12       | 11.53         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE1 | 20       | 11.53         |
| (1,3737) | 1:A:18:LEU:HG   | 1:A:23:TYR:HE2 | 20       | 11.53         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 12       | 11.53         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2 | 4        | 11.53         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3  | 4        | 11.53         |
| (1,3415) | 1:A:15:ARG:HD2 | 1:A:32:TYR:H    | 2        | 11.53         |
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H    | 2        | 11.53         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 17       | 11.53         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 17       | 11.53         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 17       | 11.53         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 17       | 11.53         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 4        | 11.53         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 20       | 11.53         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 1        | 11.53         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 3        | 11.53         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 3        | 11.53         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 3        | 11.53         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 13       | 11.53         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 13       | 11.53         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 9        | 11.53         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 2        | 11.53         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 18       | 11.53         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 5        | 11.53         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 5        | 11.53         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 11       | 11.53         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG   | 4        | 11.53         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG   | 4        | 11.53         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 12       | 11.53         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 15       | 11.53         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 2        | 11.53         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 13       | 11.53         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 5        | 11.53         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 18       | 11.53         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 6        | 11.53         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 15       | 11.53         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 3        | 11.53         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 13       | 11.53         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 6        | 11.53         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 6        | 11.53         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 6        | 11.53         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 5        | 11.53         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 5        | 11.53         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 14       | 11.53         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 14       | 11.53         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 2        | 11.53         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 2        | 11.53         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2   | 12       | 11.53         |
| (1,1468) | 1:A:5:GLY:HA3   | 1:A:9:PRO:HB2   | 15       | 11.53         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB2  | 16       | 11.53         |
| (1,1384) | 1:A:4:ASN:HD22  | 1:A:32:TYR:HB3  | 16       | 11.53         |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H    | 17       | 11.53         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3  | 11       | 11.53         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 2        | 11.52         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2  | 5        | 11.52         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3  | 5        | 11.52         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 8        | 11.52         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 9        | 11.52         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 9        | 11.52         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 16       | 11.52         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 16       | 11.52         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 4        | 11.52         |
| (1,4667) | 1:A:26:CYS:HB2  | 1:A:35:HIS:HE1  | 5        | 11.52         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1  | 1        | 11.52         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1  | 1        | 11.52         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB2  | 2        | 11.52         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB2  | 2        | 11.52         |
| (1,4587) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HB3  | 2        | 11.52         |
| (1,4587) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HB3  | 2        | 11.52         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 2        | 11.52         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2  | 12       | 11.52         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 13       | 11.52         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 13       | 11.52         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 13       | 11.52         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 4        | 11.52         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 4        | 11.52         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 9        | 11.52         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 9        | 11.52         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3  | 7        | 11.52         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD2  | 15       | 11.52         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD3  | 15       | 11.52         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H    | 11       | 11.52         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H    | 11       | 11.52         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 12       | 11.52         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 12       | 11.52         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2  | 19       | 11.52         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3  | 19       | 11.52         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG2  | 19       | 11.52         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG3  | 19       | 11.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H    | 16       | 11.52         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H    | 16       | 11.52         |
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA   | 18       | 11.52         |
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA   | 19       | 11.52         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 2        | 11.52         |
| (1,3301) | 1:A:15:ARG:HB2 | 1:A:24:GLY:HA2  | 2        | 11.52         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 8        | 11.52         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 8        | 11.52         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 18       | 11.52         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 8        | 11.52         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1  | 7        | 11.52         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2  | 7        | 11.52         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 9        | 11.52         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 9        | 11.52         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 8        | 11.52         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 15       | 11.52         |
| (1,2850) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HA   | 13       | 11.52         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 15       | 11.52         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 4        | 11.52         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 9        | 11.52         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 9        | 11.52         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 9        | 11.52         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 9        | 11.52         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 7        | 11.52         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 7        | 11.52         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 18       | 11.52         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 18       | 11.52         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 19       | 11.52         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 19       | 11.52         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 18       | 11.52         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 16       | 11.52         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 1        | 11.52         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 8        | 11.52         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 10       | 11.52         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 10       | 11.52         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 5        | 11.52         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 8        | 11.52         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 9        | 11.52         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 20       | 11.52         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 11       | 11.52         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 14       | 11.52         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 1        | 11.52         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1280) | 1:A:4:ASN:HD21  | 1:A:22:GLN:HB3  | 1        | 11.52         |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB2   | 19       | 11.52         |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB3   | 19       | 11.52         |
| (1,1078) | 1:A:4:ASN:H     | 1:A:22:GLN:H    | 9        | 11.52         |
| (1,1078) | 1:A:4:ASN:H     | 1:A:22:GLN:H    | 12       | 11.52         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA2  | 1        | 11.52         |
| (1,1067) | 1:A:4:ASN:H     | 1:A:17:GLY:HA3  | 1        | 11.52         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 5        | 11.51         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 12       | 11.51         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 12       | 11.51         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2  | 4        | 11.51         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3  | 4        | 11.51         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2  | 15       | 11.51         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3  | 15       | 11.51         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1  | 1        | 11.51         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2  | 1        | 11.51         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3  | 1        | 11.51         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1  | 1        | 11.51         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2  | 1        | 11.51         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3  | 1        | 11.51         |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2  | 11       | 11.51         |
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1  | 19       | 11.51         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2  | 19       | 11.51         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 11       | 11.51         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 11       | 11.51         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 13       | 11.51         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 13       | 11.51         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 2        | 11.51         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 2        | 11.51         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H    | 20       | 11.51         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2  | 7        | 11.51         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3  | 7        | 11.51         |
| (1,3281) | 1:A:15:ARG:H    | 1:A:35:HIS:HD2  | 8        | 11.51         |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 17       | 11.51         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 20       | 11.51         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 20       | 11.51         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2  | 5        | 11.51         |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2  | 17       | 11.51         |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA   | 4        | 11.51         |
| (1,2641) | 1:A:11:TRP:HB2  | 1:A:16:GLY:H    | 6        | 11.51         |
| (1,2429) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HB3  | 20       | 11.51         |
| (1,2429) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HB3  | 20       | 11.51         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 9        | 11.51         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 9        | 11.51         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 16       | 11.51         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 16       | 11.51         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 3        | 11.51         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 14       | 11.51         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 19       | 11.51         |
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3 | 4        | 11.51         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 15       | 11.51         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 9        | 11.51         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 9        | 11.51         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 12       | 11.51         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 12       | 11.51         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 17       | 11.51         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 12       | 11.51         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 10       | 11.51         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 11       | 11.51         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 11       | 11.51         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 11       | 11.51         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 16       | 11.51         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 18       | 11.51         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 19       | 11.51         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB2  | 9        | 11.51         |
| (1,1324) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HB3  | 9        | 11.51         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 5        | 11.51         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 17       | 11.51         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 3        | 11.51         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 11       | 11.51         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H   | 4        | 11.5          |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H   | 4        | 11.5          |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE1 | 2        | 11.5          |
| (1,876)  | 1:A:3:PRO:HB3  | 1:A:32:TYR:HE2 | 2        | 11.5          |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 1        | 11.5          |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1 | 13       | 11.5          |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2 | 13       | 11.5          |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H   | 9        | 11.5          |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 6        | 11.5          |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 6        | 11.5          |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H   | 14       | 11.5          |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 10       | 11.5          |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 10       | 11.5          |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2 | 16       | 11.5          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 16       | 11.5          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 4        | 11.5          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 4        | 11.5          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H    | 19       | 11.5          |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 9        | 11.5          |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 9        | 11.5          |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 9        | 11.5          |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 3        | 11.5          |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 6        | 11.5          |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2  | 14       | 11.5          |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3  | 14       | 11.5          |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 1        | 11.5          |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 1        | 11.5          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 6        | 11.5          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 6        | 11.5          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 10       | 11.5          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 10       | 11.5          |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 6        | 11.5          |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 6        | 11.5          |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H    | 3        | 11.5          |
| (1,3318) | 1:A:15:ARG:HB2  | 1:A:34:ALA:HA   | 11       | 11.5          |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H    | 7        | 11.5          |
| (1,3297) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HB2  | 14       | 11.5          |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 19       | 11.5          |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG2  | 10       | 11.5          |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG3  | 10       | 11.5          |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB2  | 16       | 11.5          |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB3  | 16       | 11.5          |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA   | 6        | 11.5          |
| (1,2695) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HE21 | 7        | 11.5          |
| (1,2695) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HE22 | 7        | 11.5          |
| (1,2674) | 1:A:11:TRP:HB2  | 1:A:35:HIS:HE1  | 1        | 11.5          |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 2        | 11.5          |
| (1,2434) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HG   | 3        | 11.5          |
| (1,2434) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HG   | 3        | 11.5          |
| (1,2429) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HB3  | 8        | 11.5          |
| (1,2429) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HB3  | 8        | 11.5          |
| (1,2398) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HB3  | 18       | 11.5          |
| (1,2398) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HB3  | 19       | 11.5          |
| (1,2317) | 1:A:9:PRO:HG2   | 1:A:19:CYS:HA   | 11       | 11.5          |
| (1,2165) | 1:A:9:PRO:HA    | 1:A:23:TYR:HB3  | 4        | 11.5          |
| (1,2165) | 1:A:9:PRO:HA    | 1:A:23:TYR:HB3  | 8        | 11.5          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 2        | 11.5          |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 2        | 11.5          |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 10       | 11.5          |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 10       | 11.5          |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 14       | 11.5          |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 14       | 11.5          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA2  | 17       | 11.5          |
| (1,1636) | 1:A:6:GLN:HB3  | 1:A:17:GLY:HA3  | 17       | 11.5          |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H    | 15       | 11.5          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 13       | 11.5          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 13       | 11.5          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 5        | 11.5          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 5        | 11.5          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 5        | 11.5          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 20       | 11.5          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 20       | 11.5          |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2   | 7        | 11.5          |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB2  | 1        | 11.5          |
| (1,1452) | 1:A:5:GLY:H    | 1:A:35:HIS:HB3  | 1        | 11.5          |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 13       | 11.5          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 6        | 11.5          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 6        | 11.5          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3  | 6        | 11.5          |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 8        | 11.49         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 3        | 11.49         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 3        | 11.49         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 8        | 11.49         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 20       | 11.49         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 14       | 11.49         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 14       | 11.49         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 2        | 11.49         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H    | 12       | 11.49         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H    | 12       | 11.49         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2  | 17       | 11.49         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2  | 17       | 11.49         |
| (1,4492) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB2  | 4        | 11.49         |
| (1,4384) | 1:A:23:TYR:HB2 | 1:A:35:HIS:H    | 4        | 11.49         |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 14       | 11.49         |
| (1,4189) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA2  | 10       | 11.49         |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 5        | 11.49         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 12       | 11.49         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 12       | 11.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ1  | 3        | 11.49         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ2  | 3        | 11.49         |
| (1,3541) | 1:A:16:GLY:HA3 | 1:A:31:LYS:HZ3  | 3        | 11.49         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H    | 6        | 11.49         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3  | 16       | 11.49         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3  | 16       | 11.49         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 5        | 11.49         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 5        | 11.49         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 8        | 11.49         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 8        | 11.49         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 8        | 11.49         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 8        | 11.49         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 7        | 11.49         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 14       | 11.49         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 14       | 11.49         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 20       | 11.49         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 3        | 11.49         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 12       | 11.49         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 2        | 11.49         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 5        | 11.49         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 5        | 11.49         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 3        | 11.49         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 3        | 11.49         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB2  | 1        | 11.49         |
| (1,2486) | 1:A:10:GLY:H   | 1:A:35:HIS:HB3  | 1        | 11.49         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 15       | 11.49         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 5        | 11.49         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 5        | 11.49         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 9        | 11.49         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 9        | 11.49         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 20       | 11.49         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 20       | 11.49         |
| (1,2308) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HE   | 7        | 11.49         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 1        | 11.49         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 7        | 11.49         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 7        | 11.49         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 7        | 11.49         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 2        | 11.49         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 3        | 11.49         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 4        | 11.49         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 13       | 11.49         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 6        | 11.49         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 2        | 11.49         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 2        | 11.49         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 10       | 11.49         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 13       | 11.49         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 1        | 11.49         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 1        | 11.49         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 1        | 11.49         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 18       | 11.49         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 20       | 11.49         |
| (1,1468) | 1:A:5:GLY:HA3  | 1:A:9:PRO:HB2  | 13       | 11.49         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 20       | 11.49         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3 | 20       | 11.49         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 4        | 11.49         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 8        | 11.49         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 8        | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 8        | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 8        | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 17       | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 17       | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 18       | 11.49         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 18       | 11.49         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA  | 3        | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 6        | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 6        | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 18       | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 18       | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 19       | 11.49         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 19       | 11.49         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE1 | 2        | 11.49         |
| (1,1045) | 1:A:3:PRO:HD3  | 1:A:32:TYR:HE2 | 2        | 11.49         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1 | 16       | 11.48         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2 | 16       | 11.48         |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 4        | 11.48         |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 4        | 11.48         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 1        | 11.48         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 1        | 11.48         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 2        | 11.48         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 2        | 11.48         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 6        | 11.48         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 6        | 11.48         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 6        | 11.48         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 6        | 11.48         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 6        | 11.48         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 6        | 11.48         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 6        | 11.48         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 6        | 11.48         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 10       | 11.48         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2 | 5        | 11.48         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2 | 5        | 11.48         |
| (1,4565) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HB2 | 10       | 11.48         |
| (1,4565) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HB2 | 10       | 11.48         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2 | 3        | 11.48         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3 | 3        | 11.48         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2 | 11       | 11.48         |
| (1,4257) | 1:A:22:GLN:HG3 | 1:A:28:SER:HB3 | 16       | 11.48         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1 | 13       | 11.48         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2 | 13       | 11.48         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3 | 9        | 11.48         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 1        | 11.48         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 1        | 11.48         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2 | 6        | 11.48         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 16       | 11.48         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 16       | 11.48         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 17       | 11.48         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 17       | 11.48         |
| (1,3355) | 1:A:15:ARG:HB3 | 1:A:35:HIS:H   | 10       | 11.48         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H   | 9        | 11.48         |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H   | 17       | 11.48         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 1        | 11.48         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA  | 10       | 11.48         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 3        | 11.48         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 3        | 11.48         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 7        | 11.48         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA  | 10       | 11.48         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3 | 6        | 11.48         |
| (1,2642) | 1:A:11:TRP:HB2 | 1:A:17:GLY:H   | 14       | 11.48         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 6        | 11.48         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 6        | 11.48         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 14       | 11.48         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 11       | 11.48         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 16       | 11.48         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 16       | 11.48         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 16       | 11.48         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 12       | 11.48         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 11       | 11.48         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 15       | 11.48         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 6        | 11.48         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 5        | 11.48         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 5        | 11.48         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA2 | 17       | 11.48         |
| (1,1752) | 1:A:6:GLN:HG3  | 1:A:17:GLY:HA3 | 17       | 11.48         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 4        | 11.48         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 4        | 11.48         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 4        | 11.48         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG2 | 20       | 11.48         |
| (1,1539) | 1:A:6:GLN:H    | 1:A:31:LYS:HG3 | 20       | 11.48         |
| (1,1500) | 1:A:5:GLY:HA3  | 1:A:35:HIS:H   | 19       | 11.48         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 18       | 11.48         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 18       | 11.48         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 20       | 11.48         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 12       | 11.48         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 12       | 11.48         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 12       | 11.48         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H   | 17       | 11.48         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 12       | 11.47         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 12       | 11.47         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 13       | 11.47         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 11       | 11.47         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 11       | 11.47         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H   | 3        | 11.47         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 8        | 11.47         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 8        | 11.47         |
| (1,4599) | 1:A:25:TYR:HE1 | 1:A:33:CYS:HB2 | 5        | 11.47         |
| (1,4599) | 1:A:25:TYR:HE2 | 1:A:33:CYS:HB2 | 5        | 11.47         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 12       | 11.47         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3 | 14       | 11.47         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H   | 11       | 11.47         |
| (1,3415) | 1:A:15:ARG:HD2 | 1:A:32:TYR:H   | 8        | 11.47         |
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H   | 8        | 11.47         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA  | 17       | 11.47         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA  | 17       | 11.47         |
| (1,3354) | 1:A:15:ARG:HB3 | 1:A:34:ALA:HA  | 16       | 11.47         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1 | 20       | 11.47         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2 | 20       | 11.47         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1 | 8        | 11.47         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2 | 8        | 11.47         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 5        | 11.47         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 14       | 11.47         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 14       | 11.47         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD1  | 17       | 11.47         |
| (1,3109) | 1:A:13:GLY:H   | 1:A:23:TYR:HD2  | 17       | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 2        | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 2        | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 4        | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 4        | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2  | 10       | 11.47         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3  | 10       | 11.47         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 5        | 11.47         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 13       | 11.47         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 10       | 11.47         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 10       | 11.47         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H    | 3        | 11.47         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H    | 3        | 11.47         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 12       | 11.47         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 12       | 11.47         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 3        | 11.47         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 11       | 11.47         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 8        | 11.47         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 20       | 11.47         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 18       | 11.47         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 18       | 11.47         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 1        | 11.47         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 1        | 11.47         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 1        | 11.47         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA   | 11       | 11.47         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 7        | 11.47         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 16       | 11.47         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 18       | 11.47         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 20       | 11.47         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 12       | 11.47         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 12       | 11.47         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 1        | 11.47         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 14       | 11.47         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 9        | 11.47         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 12       | 11.47         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 5        | 11.47         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 6        | 11.47         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 2        | 11.47         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 2        | 11.47         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 2        | 11.47         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 11       | 11.47         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 11       | 11.47         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 10       | 11.47         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 15       | 11.47         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 15       | 11.47         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 6        | 11.47         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 12       | 11.47         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 12       | 11.47         |
| (1,1809) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HB2 | 1        | 11.47         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 19       | 11.47         |
| (1,1275) | 1:A:4:ASN:HD21 | 1:A:20:CYS:H   | 20       | 11.47         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 3        | 11.47         |
| (1,1269) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HA  | 20       | 11.47         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 4        | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 8        | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 8        | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 11       | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 11       | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 16       | 11.47         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 16       | 11.47         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1 | 20       | 11.46         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2 | 20       | 11.46         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H   | 17       | 11.46         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H   | 17       | 11.46         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 9        | 11.46         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 15       | 11.46         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 20       | 11.46         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 4        | 11.46         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 4        | 11.46         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1 | 19       | 11.46         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2 | 19       | 11.46         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 15       | 11.46         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 15       | 11.46         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 11       | 11.46         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H   | 11       | 11.46         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 12       | 11.46         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 12       | 11.46         |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 14       | 11.46         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1 | 4        | 11.46         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 12       | 11.46         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA  | 13       | 11.46         |
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA  | 15       | 11.46         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 6        | 11.46         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 6        | 11.46         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 19       | 11.46         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 19       | 11.46         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 9        | 11.46         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 9        | 11.46         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 4        | 11.46         |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 2        | 11.46         |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 7        | 11.46         |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 6        | 11.46         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2 | 9        | 11.46         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3 | 9        | 11.46         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 3        | 11.46         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3 | 3        | 11.46         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 17       | 11.46         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3 | 17       | 11.46         |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2 | 4        | 11.46         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 11       | 11.46         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2 | 10       | 11.46         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3 | 10       | 11.46         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 17       | 11.46         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 17       | 11.46         |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H   | 5        | 11.46         |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H   | 5        | 11.46         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 8        | 11.46         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H   | 18       | 11.46         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H   | 19       | 11.46         |
| (1,3265) | 1:A:15:ARG:H    | 1:A:23:TYR:HB3 | 9        | 11.46         |
| (1,3265) | 1:A:15:ARG:H    | 1:A:23:TYR:HB3 | 19       | 11.46         |
| (1,3121) | 1:A:13:GLY:H    | 1:A:28:SER:HB3 | 2        | 11.46         |
| (1,3121) | 1:A:13:GLY:H    | 1:A:28:SER:HB3 | 4        | 11.46         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2 | 7        | 11.46         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 13       | 11.46         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 13       | 11.46         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H   | 13       | 11.46         |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2 | 4        | 11.46         |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG2 | 7        | 11.46         |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG3 | 7        | 11.46         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA  | 1        | 11.46         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA  | 13       | 11.46         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 9        | 11.46         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 19       | 11.46         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 1        | 11.46         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 8        | 11.46         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 1        | 11.46         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 16       | 11.46         |
| (1,1891) | 1:A:6:GLN:HE22 | 1:A:22:GLN:H   | 5        | 11.46         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 5        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 2        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 2        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 2        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 8        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 8        | 11.46         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 8        | 11.46         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2 | 1        | 11.46         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 1        | 11.46         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2 | 14       | 11.46         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 14       | 11.46         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 15       | 11.46         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 15       | 11.46         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 11       | 11.46         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 7        | 11.46         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 7        | 11.46         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 12       | 11.46         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 12       | 11.46         |
| (1,1185) | 1:A:4:ASN:HB3  | 1:A:9:PRO:HA   | 13       | 11.46         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA  | 9        | 11.46         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3 | 10       | 11.46         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H   | 1        | 11.46         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 9        | 11.46         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 9        | 11.46         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H   | 17       | 11.46         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 20       | 11.45         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3 | 8        | 11.45         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 5        | 11.45         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 5        | 11.45         |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1 | 3        | 11.45         |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2 | 3        | 11.45         |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3 | 3        | 11.45         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2 | 10       | 11.45         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3 | 10       | 11.45         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3 | 5        | 11.45         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 10       | 11.45         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 9        | 11.45         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1 | 13       | 11.45         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2 | 13       | 11.45         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 19       | 11.45         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 19       | 11.45         |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 1        | 11.45         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 1        | 11.45         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 1        | 11.45         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 3        | 11.45         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 8        | 11.45         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 15       | 11.45         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 2        | 11.45         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 2        | 11.45         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 2        | 11.45         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 4        | 11.45         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 13       | 11.45         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 13       | 11.45         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 14       | 11.45         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 14       | 11.45         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 16       | 11.45         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 3        | 11.45         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 4        | 11.45         |
| (1,2463) | 1:A:10:GLY:H   | 1:A:19:CYS:H   | 17       | 11.45         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 15       | 11.45         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 8        | 11.45         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 14       | 11.45         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 7        | 11.45         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 11       | 11.45         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 18       | 11.45         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H   | 8        | 11.45         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 17       | 11.45         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB2 | 19       | 11.45         |
| (1,1384) | 1:A:4:ASN:HD22 | 1:A:32:TYR:HB3 | 19       | 11.45         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 7        | 11.45         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 8        | 11.45         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 1        | 11.45         |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 1        | 11.45         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 19       | 11.45         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 19       | 11.45         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 19       | 11.45         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 19       | 11.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 6        | 11.45         |
| (1,1161) | 1:A:4:ASN:HB2  | 1:A:28:SER:HB3  | 20       | 11.45         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 17       | 11.45         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 17       | 11.45         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 18       | 11.44         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 18       | 11.44         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H    | 9        | 11.44         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 14       | 11.44         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3  | 8        | 11.44         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3  | 8        | 11.44         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 14       | 11.44         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 18       | 11.44         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2  | 6        | 11.44         |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2  | 3        | 11.44         |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3  | 3        | 11.44         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 13       | 11.44         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 13       | 11.44         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1  | 5        | 11.44         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2  | 5        | 11.44         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 7        | 11.44         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 7        | 11.44         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 7        | 11.44         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 7        | 11.44         |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 13       | 11.44         |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 13       | 11.44         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1  | 11       | 11.44         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1  | 11       | 11.44         |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2  | 6        | 11.44         |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD3  | 6        | 11.44         |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H    | 15       | 11.44         |
| (1,4421) | 1:A:23:TYR:HE2 | 1:A:29:GLY:H    | 15       | 11.44         |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3  | 15       | 11.44         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 9        | 11.44         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE21 | 2        | 11.44         |
| (1,3501) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HE22 | 2        | 11.44         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 4        | 11.44         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H    | 12       | 11.44         |
| (1,3297) | 1:A:15:ARG:HB2 | 1:A:23:TYR:HB2  | 1        | 11.44         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 18       | 11.44         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2  | 4        | 11.44         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3  | 4        | 11.44         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2  | 10       | 11.44         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3  | 10       | 11.44         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H    | 10       | 11.44         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB1  | 8        | 11.44         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB2  | 8        | 11.44         |
| (1,3083) | 1:A:12:GLY:HA3 | 1:A:34:ALA:HB3  | 8        | 11.44         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 3        | 11.44         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 3        | 11.44         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 11       | 11.44         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 10       | 11.44         |
| (1,2669) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HA   | 17       | 11.44         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 2        | 11.44         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 10       | 11.44         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 5        | 11.44         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 5        | 11.44         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 5        | 11.44         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 5        | 11.44         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 12       | 11.44         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 14       | 11.44         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 18       | 11.44         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 4        | 11.44         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 4        | 11.44         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 5        | 11.44         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 6        | 11.44         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 3        | 11.44         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 4        | 11.44         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 9        | 11.44         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 11       | 11.44         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 11       | 11.44         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 9        | 11.44         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 9        | 11.44         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 9        | 11.44         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 16       | 11.44         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 18       | 11.44         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 13       | 11.44         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 13       | 11.44         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 16       | 11.44         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 16       | 11.44         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 14       | 11.44         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 8        | 11.44         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 14       | 11.44         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 8        | 11.44         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2  | 7        | 11.44         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 7        | 11.44         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 20       | 11.44         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 20       | 11.44         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 16       | 11.43         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 2        | 11.43         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 2        | 11.43         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 5        | 11.43         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 5        | 11.43         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE1 | 10       | 11.43         |
| (1,639)  | 1:A:2:GLY:H    | 1:A:23:TYR:HE2 | 10       | 11.43         |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 5        | 11.43         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 2        | 11.43         |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 10       | 11.43         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 1        | 11.43         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 11       | 11.43         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 11       | 11.43         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 8        | 11.43         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H   | 12       | 11.43         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H   | 6        | 11.43         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2 | 8        | 11.43         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3 | 8        | 11.43         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 8        | 11.43         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 8        | 11.43         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H   | 15       | 11.43         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3 | 3        | 11.43         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3 | 18       | 11.43         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3 | 18       | 11.43         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2 | 7        | 11.43         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3 | 7        | 11.43         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 3        | 11.43         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 1        | 11.43         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 1        | 11.43         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 13       | 11.43         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 13       | 11.43         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 17       | 11.43         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 17       | 11.43         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 1        | 11.43         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 1        | 11.43         |
| (1,2464) | 1:A:10:GLY:H   | 1:A:19:CYS:HB3 | 17       | 11.43         |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 2        | 11.43         |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 2        | 11.43         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 4        | 11.43         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3  | 9        | 11.43         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 7        | 11.43         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 7        | 11.43         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 6        | 11.43         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 11       | 11.43         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3  | 15       | 11.43         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 5        | 11.43         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 1        | 11.43         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 1        | 11.43         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 2        | 11.43         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 12       | 11.43         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 6        | 11.43         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 14       | 11.43         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 14       | 11.43         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 8        | 11.43         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 13       | 11.43         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 19       | 11.42         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 19       | 11.42         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 6        | 11.42         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 6        | 11.42         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 14       | 11.42         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 14       | 11.42         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2  | 13       | 11.42         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 4        | 11.42         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 8        | 11.42         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 8        | 11.42         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 12       | 11.42         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 12       | 11.42         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 4        | 11.42         |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H    | 12       | 11.42         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 3        | 11.42         |
| (1,3548) | 1:A:16:GLY:HA3 | 1:A:35:HIS:HD2  | 8        | 11.42         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 14       | 11.42         |
| (1,3415) | 1:A:15:ARG:HD2 | 1:A:32:TYR:H    | 10       | 11.42         |
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H    | 10       | 11.42         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 18       | 11.42         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 19       | 11.42         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 12       | 11.42         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 8        | 11.42         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H    | 1        | 11.42         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB1  | 8        | 11.42         |
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB2  | 8        | 11.42         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3038) | 1:A:12:GLY:H   | 1:A:34:ALA:HB3 | 8        | 11.42         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 3        | 11.42         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 17       | 11.42         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2 | 13       | 11.42         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3 | 13       | 11.42         |
| (1,2434) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HG  | 17       | 11.42         |
| (1,2434) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HG  | 17       | 11.42         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 6        | 11.42         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 13       | 11.42         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 12       | 11.42         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2 | 15       | 11.42         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 14       | 11.42         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 10       | 11.42         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 11       | 11.42         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 13       | 11.42         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 13       | 11.42         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 11       | 11.42         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 11       | 11.42         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 10       | 11.42         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 17       | 11.42         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 17       | 11.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 13       | 11.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 13       | 11.42         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 13       | 11.42         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2 | 15       | 11.42         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3 | 15       | 11.42         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 4        | 11.42         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 9        | 11.42         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2 | 14       | 11.42         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3 | 14       | 11.42         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 11       | 11.42         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 11       | 11.42         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 14       | 11.42         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H   | 15       | 11.42         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 2        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 2        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 2        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 2        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1 | 5        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2 | 5        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1 | 5        | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2 | 5        | 11.41         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 10       | 11.41         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 10       | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 10       | 11.41         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 10       | 11.41         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2  | 3        | 11.41         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3  | 3        | 11.41         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2  | 3        | 11.41         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3  | 3        | 11.41         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2  | 17       | 11.41         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3  | 17       | 11.41         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2  | 17       | 11.41         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3  | 17       | 11.41         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2  | 18       | 11.41         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 19       | 11.41         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 17       | 11.41         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2  | 2        | 11.41         |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3  | 2        | 11.41         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 5        | 11.41         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 5        | 11.41         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 5        | 11.41         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 5        | 11.41         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 6        | 11.41         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 6        | 11.41         |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 14       | 11.41         |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H    | 14       | 11.41         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 18       | 11.41         |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H    | 2        | 11.41         |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 7        | 11.41         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 6        | 11.41         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H    | 20       | 11.41         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2  | 14       | 11.41         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3  | 14       | 11.41         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1  | 4        | 11.41         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2  | 4        | 11.41         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3  | 4        | 11.41         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 13       | 11.41         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 1        | 11.41         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 1        | 11.41         |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H    | 3        | 11.41         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 3        | 11.41         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 3        | 11.41         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2  | 10       | 11.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 10       | 11.41         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 1        | 11.41         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 1        | 11.41         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 1        | 11.41         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 1        | 11.41         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 7        | 11.41         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 15       | 11.41         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 8        | 11.41         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 9        | 11.41         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 13       | 11.41         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 19       | 11.41         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 19       | 11.41         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 14       | 11.41         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 14       | 11.41         |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 13       | 11.41         |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 13       | 11.41         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 3        | 11.41         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 13       | 11.41         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 13       | 11.41         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 12       | 11.41         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2  | 14       | 11.41         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 15       | 11.41         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 10       | 11.41         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 3        | 11.41         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 3        | 11.41         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 17       | 11.41         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 17       | 11.41         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 14       | 11.41         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 1        | 11.41         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 1        | 11.41         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 16       | 11.41         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB2  | 4        | 11.41         |
| (1,1280) | 1:A:4:ASN:HD21 | 1:A:22:GLN:HB3  | 4        | 11.41         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 7        | 11.41         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 10       | 11.4          |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 16       | 11.4          |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 19       | 11.4          |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 15       | 11.4          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 10       | 11.4          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 10       | 11.4          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 16       | 11.4          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 16       | 11.4          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1 | 20       | 11.4          |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2 | 20       | 11.4          |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H   | 11       | 11.4          |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 18       | 11.4          |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 18       | 11.4          |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 13       | 11.4          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 17       | 11.4          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 17       | 11.4          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 17       | 11.4          |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H   | 9        | 11.4          |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H   | 9        | 11.4          |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 4        | 11.4          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 8        | 11.4          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 3        | 11.4          |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 4        | 11.4          |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 5        | 11.4          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2 | 7        | 11.4          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3 | 7        | 11.4          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2 | 12       | 11.4          |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3 | 12       | 11.4          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 18       | 11.4          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3 | 18       | 11.4          |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 15       | 11.4          |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2 | 3        | 11.4          |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3 | 3        | 11.4          |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 12       | 11.4          |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 12       | 11.4          |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 2        | 11.4          |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 6        | 11.4          |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2 | 16       | 11.4          |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 15       | 11.4          |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 15       | 11.4          |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1 | 6        | 11.4          |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2 | 6        | 11.4          |
| (1,2989) | 1:A:12:GLY:H    | 1:A:17:GLY:H   | 14       | 11.4          |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG  | 11       | 11.4          |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG  | 12       | 11.4          |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2 | 3        | 11.4          |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3 | 3        | 11.4          |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2 | 6        | 11.4          |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3 | 6        | 11.4          |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2 | 3        | 11.4          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 3        | 11.4          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 4        | 11.4          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 4        | 11.4          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 6        | 11.4          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 6        | 11.4          |
| (1,2454) | 1:A:9:PRO:HD2  | 1:A:33:CYS:H   | 4        | 11.4          |
| (1,2454) | 1:A:9:PRO:HD3  | 1:A:33:CYS:H   | 4        | 11.4          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 8        | 11.4          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 8        | 11.4          |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 13       | 11.4          |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 2        | 11.4          |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 5        | 11.4          |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H   | 14       | 11.4          |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 7        | 11.4          |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 19       | 11.4          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 10       | 11.4          |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 3        | 11.4          |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 17       | 11.4          |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 16       | 11.4          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2 | 9        | 11.4          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3 | 9        | 11.4          |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 17       | 11.4          |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 15       | 11.4          |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3 | 14       | 11.4          |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 10       | 11.4          |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 18       | 11.39         |
| (1,963)  | 1:A:3:PRO:HD2  | 1:A:19:CYS:H   | 20       | 11.39         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG  | 7        | 11.39         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 18       | 11.39         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 18       | 11.39         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 8        | 11.39         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 8        | 11.39         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 7        | 11.39         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H   | 3        | 11.39         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 6        | 11.39         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 6        | 11.39         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 11       | 11.39         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 11       | 11.39         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H   | 1        | 11.39         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2 | 11       | 11.39         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3 | 11       | 11.39         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 11       | 11.39         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 11       | 11.39         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 11       | 11.39         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 11       | 11.39         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 11       | 11.39         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 11       | 11.39         |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3  | 19       | 11.39         |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3  | 19       | 11.39         |
| (1,4375) | 1:A:23:TYR:HB2 | 1:A:30:PRO:HB2  | 17       | 11.39         |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 14       | 11.39         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3  | 18       | 11.39         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H    | 18       | 11.39         |
| (1,3623) | 1:A:17:GLY:HA3 | 1:A:22:GLN:H    | 19       | 11.39         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 17       | 11.39         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB2  | 18       | 11.39         |
| (1,3596) | 1:A:17:GLY:HA2 | 1:A:22:GLN:HB3  | 18       | 11.39         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 12       | 11.39         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 11       | 11.39         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 11       | 11.39         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2  | 7        | 11.39         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3  | 7        | 11.39         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3  | 17       | 11.39         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3  | 17       | 11.39         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 12       | 11.39         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 20       | 11.39         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA   | 13       | 11.39         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 5        | 11.39         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 6        | 11.39         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 11       | 11.39         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2  | 3        | 11.39         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3  | 3        | 11.39         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2  | 11       | 11.39         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3  | 11       | 11.39         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 2        | 11.39         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 2        | 11.39         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 18       | 11.39         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 18       | 11.39         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 19       | 11.39         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 19       | 11.39         |
| (1,2653) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HB3  | 14       | 11.39         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 1        | 11.39         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2  | 4        | 11.39         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3  | 4        | 11.39         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 2        | 11.39         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 2        | 11.39         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 5        | 11.39         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 5        | 11.39         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 10       | 11.39         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 10       | 11.39         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2 | 20       | 11.39         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2 | 20       | 11.39         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3 | 20       | 11.39         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3 | 20       | 11.39         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 7        | 11.39         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 4        | 11.39         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 10       | 11.39         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 6        | 11.39         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 14       | 11.39         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 16       | 11.39         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 18       | 11.39         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 19       | 11.39         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 17       | 11.39         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 17       | 11.39         |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 17       | 11.39         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 3        | 11.39         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 18       | 11.39         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 8        | 11.39         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 8        | 11.39         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 12       | 11.39         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 12       | 11.39         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 5        | 11.39         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 4        | 11.39         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 4        | 11.39         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 17       | 11.39         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB1 | 15       | 11.39         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB2 | 15       | 11.39         |
| (1,1689) | 1:A:6:GLN:HB3  | 1:A:34:ALA:HB3 | 15       | 11.39         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 6        | 11.39         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 1        | 11.39         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 17       | 11.39         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 11       | 11.39         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 11       | 11.39         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 13       | 11.39         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 13       | 11.39         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2 | 17       | 11.39         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1147) | 1:A:4:ASN:HB2   | 1:A:22:GLN:H    | 17       | 11.39         |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H    | 12       | 11.39         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H    | 16       | 11.38         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H    | 19       | 11.38         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 3        | 11.38         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 3        | 11.38         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 3        | 11.38         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 3        | 11.38         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2  | 7        | 11.38         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 3        | 11.38         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 1        | 11.38         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 1        | 11.38         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 3        | 11.38         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 3        | 11.38         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB2  | 5        | 11.38         |
| (1,733)  | 1:A:2:GLY:HA3   | 1:A:22:GLN:HB3  | 5        | 11.38         |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1  | 13       | 11.38         |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1  | 13       | 11.38         |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 13       | 11.38         |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2  | 4        | 11.38         |
| (1,4599) | 1:A:25:TYR:HE1  | 1:A:33:CYS:HB2  | 2        | 11.38         |
| (1,4599) | 1:A:25:TYR:HE2  | 1:A:33:CYS:HB2  | 2        | 11.38         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 5        | 11.38         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 5        | 11.38         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 4        | 11.38         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 4        | 11.38         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 4        | 11.38         |
| (1,3761) | 1:A:18:LEU:HG   | 1:A:35:HIS:HE1  | 10       | 11.38         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3  | 8        | 11.38         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 17       | 11.38         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H    | 7        | 11.38         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H    | 10       | 11.38         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB2  | 19       | 11.38         |
| (1,3596) | 1:A:17:GLY:HA2  | 1:A:22:GLN:HB3  | 19       | 11.38         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA   | 8        | 11.38         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 1        | 11.38         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H    | 9        | 11.38         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 12       | 11.38         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 10       | 11.38         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 10       | 11.38         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 1        | 11.38         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2  | 6        | 11.38         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 6        | 11.38         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 14       | 11.38         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 14       | 11.38         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 11       | 11.38         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 15       | 11.38         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE1 | 17       | 11.38         |
| (1,3081) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HE2 | 17       | 11.38         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 6        | 11.38         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 6        | 11.38         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 17       | 11.38         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 17       | 11.38         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 11       | 11.38         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 2        | 11.38         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 2        | 11.38         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 10       | 11.38         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 10       | 11.38         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 6        | 11.38         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 2        | 11.38         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG  | 6        | 11.38         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 3        | 11.38         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 4        | 11.38         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 8        | 11.38         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 2        | 11.38         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 9        | 11.38         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 8        | 11.38         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 1        | 11.38         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H   | 9        | 11.38         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 6        | 11.38         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 20       | 11.38         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H   | 20       | 11.38         |
| (1,910)  | 1:A:3:PRO:HG2  | 1:A:16:GLY:HA3 | 9        | 11.37         |
| (1,910)  | 1:A:3:PRO:HG3  | 1:A:16:GLY:HA3 | 9        | 11.37         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1 | 13       | 11.37         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2 | 13       | 11.37         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2 | 2        | 11.37         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3 | 2        | 11.37         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H   | 15       | 11.37         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2 | 16       | 11.37         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3 | 16       | 11.37         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3 | 6        | 11.37         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3 | 6        | 11.37         |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 8        | 11.37         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 20       | 11.37         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 8        | 11.37         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 8        | 11.37         |
| (1,3623) | 1:A:17:GLY:HA3  | 1:A:22:GLN:H   | 16       | 11.37         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 2        | 11.37         |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 15       | 11.37         |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 15       | 11.37         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 8        | 11.37         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1 | 15       | 11.37         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2 | 15       | 11.37         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3 | 15       | 11.37         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1 | 6        | 11.37         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2 | 6        | 11.37         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2 | 16       | 11.37         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3 | 16       | 11.37         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2 | 14       | 11.37         |
| (1,3108) | 1:A:13:GLY:H    | 1:A:23:TYR:HB2 | 20       | 11.37         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 5        | 11.37         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 5        | 11.37         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2 | 16       | 11.37         |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3 | 16       | 11.37         |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA  | 17       | 11.37         |
| (1,2543) | 1:A:10:GLY:HA3  | 1:A:21:SER:HG  | 17       | 11.37         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2 | 5        | 11.37         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3 | 5        | 11.37         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA2 | 17       | 11.37         |
| (1,2478) | 1:A:10:GLY:H    | 1:A:27:GLY:HA3 | 17       | 11.37         |
| (1,2271) | 1:A:9:PRO:HB3   | 1:A:26:CYS:HA  | 4        | 11.37         |
| (1,2212) | 1:A:9:PRO:HB2   | 1:A:21:SER:HG  | 5        | 11.37         |
| (1,2169) | 1:A:9:PRO:HA    | 1:A:25:TYR:HB3 | 20       | 11.37         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD1 | 16       | 11.37         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD2 | 16       | 11.37         |
| (1,2076) | 1:A:8:GLY:H     | 1:A:33:CYS:HB3 | 7        | 11.37         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ1 | 9        | 11.37         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ2 | 9        | 11.37         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ3 | 9        | 11.37         |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H   | 6        | 11.37         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2 | 3        | 11.37         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 3        | 11.37         |
| (1,1602) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HB2 | 13       | 11.37         |
| (1,1584) | 1:A:6:GLN:HA    | 1:A:35:HIS:H   | 5        | 11.37         |
| (1,1500) | 1:A:5:GLY:HA3   | 1:A:35:HIS:H   | 20       | 11.37         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1415) | 1:A:5:GLY:H     | 1:A:15:ARG:HE   | 9        | 11.37         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 10       | 11.37         |
| (1,1078) | 1:A:4:ASN:H     | 1:A:22:GLN:H    | 16       | 11.37         |
| (1,1020) | 1:A:3:PRO:HD3   | 1:A:21:SER:HG   | 17       | 11.37         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 19       | 11.36         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 19       | 11.36         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 19       | 11.36         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 19       | 11.36         |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H    | 2        | 11.36         |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H    | 2        | 11.36         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 4        | 11.36         |
| (1,857)  | 1:A:3:PRO:HB3   | 1:A:21:SER:HG   | 6        | 11.36         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1  | 19       | 11.36         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2  | 19       | 11.36         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 14       | 11.36         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 6        | 11.36         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 6        | 11.36         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 6        | 11.36         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 6        | 11.36         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 19       | 11.36         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 19       | 11.36         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 5        | 11.36         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 5        | 11.36         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1  | 11       | 11.36         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2  | 11       | 11.36         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3  | 11       | 11.36         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 8        | 11.36         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2  | 15       | 11.36         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 9        | 11.36         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 9        | 11.36         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 12       | 11.36         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 12       | 11.36         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 12       | 11.36         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3  | 4        | 11.36         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 3        | 11.36         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 3        | 11.36         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 16       | 11.36         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 16       | 11.36         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 4        | 11.36         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 4        | 11.36         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 9        | 11.36         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 7        | 11.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2 | 7        | 11.36         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 5        | 11.36         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 6        | 11.36         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1 | 14       | 11.36         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2 | 14       | 11.36         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA2 | 5        | 11.36         |
| (1,2990) | 1:A:12:GLY:H   | 1:A:17:GLY:HA3 | 5        | 11.36         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 13       | 11.36         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2 | 7        | 11.36         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3 | 7        | 11.36         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 15       | 11.36         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 6        | 11.36         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 6        | 11.36         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 6        | 11.36         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 6        | 11.36         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 1        | 11.36         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 5        | 11.36         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 10       | 11.36         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 11       | 11.36         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 2        | 11.36         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 2        | 11.36         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 3        | 11.36         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 12       | 11.36         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 13       | 11.36         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 13       | 11.36         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 19       | 11.36         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 19       | 11.36         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3 | 9        | 11.36         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2 | 12       | 11.36         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 14       | 11.36         |
| (1,1594) | 1:A:6:GLN:HB2  | 1:A:16:GLY:H   | 11       | 11.36         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 6        | 11.36         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2 | 1        | 11.36         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3 | 1        | 11.36         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 5        | 11.36         |
| (1,1290) | 1:A:4:ASN:HD21 | 1:A:28:SER:H   | 18       | 11.36         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 6        | 11.36         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H   | 5        | 11.36         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 5        | 11.36         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 5        | 11.36         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H   | 10       | 11.35         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H   | 10       | 11.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 5        | 11.35         |
| (1,850)  | 1:A:3:PRO:HB3  | 1:A:16:GLY:HA3  | 9        | 11.35         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1  | 4        | 11.35         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2  | 4        | 11.35         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1  | 15       | 11.35         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2  | 15       | 11.35         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 20       | 11.35         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 20       | 11.35         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 1        | 11.35         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 13       | 11.35         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 9        | 11.35         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 9        | 11.35         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 8        | 11.35         |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2  | 15       | 11.35         |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD3  | 15       | 11.35         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2  | 17       | 11.35         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3  | 17       | 11.35         |
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE21 | 9        | 11.35         |
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE22 | 9        | 11.35         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3  | 12       | 11.35         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 15       | 11.35         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 15       | 11.35         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2  | 11       | 11.35         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 11       | 11.35         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H    | 10       | 11.35         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H    | 10       | 11.35         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H    | 15       | 11.35         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H    | 15       | 11.35         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H    | 7        | 11.35         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H    | 14       | 11.35         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 2        | 11.35         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 2        | 11.35         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 16       | 11.35         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 12       | 11.35         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 12       | 11.35         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 18       | 11.35         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 19       | 11.35         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 1        | 11.35         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 1        | 11.35         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 1        | 11.35         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 15       | 11.35         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 15       | 11.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3  | 2        | 11.35         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD1  | 17       | 11.35         |
| (1,2348) | 1:A:9:PRO:HG2  | 1:A:32:TYR:HD2  | 17       | 11.35         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 11       | 11.35         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 19       | 11.35         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 19       | 11.35         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 15       | 11.35         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 3        | 11.35         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 8        | 11.35         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 8        | 11.35         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 16       | 11.35         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 4        | 11.35         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 20       | 11.35         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 1        | 11.35         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 1        | 11.35         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 2        | 11.35         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 9        | 11.35         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 9        | 11.35         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 14       | 11.35         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 13       | 11.35         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 19       | 11.35         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 10       | 11.35         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 20       | 11.35         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 6        | 11.35         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 6        | 11.35         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 11       | 11.35         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 14       | 11.35         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 18       | 11.35         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 5        | 11.34         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 5        | 11.34         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 9        | 11.34         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 12       | 11.34         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 13       | 11.34         |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H    | 4        | 11.34         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 1        | 11.34         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 6        | 11.34         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 7        | 11.34         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 7        | 11.34         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 11       | 11.34         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 12       | 11.34         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 13       | 11.34         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 12       | 11.34         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 12       | 11.34         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 12       | 11.34         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 12       | 11.34         |
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA   | 8        | 11.34         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 1        | 11.34         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 1        | 11.34         |
| (1,4375) | 1:A:23:TYR:HB2  | 1:A:30:PRO:HB2  | 4        | 11.34         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 19       | 11.34         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 19       | 11.34         |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2  | 2        | 11.34         |
| (1,3760) | 1:A:18:LEU:HG   | 1:A:35:HIS:HD2  | 10       | 11.34         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 7        | 11.34         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 7        | 11.34         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 8        | 11.34         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 8        | 11.34         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 20       | 11.34         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 17       | 11.34         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 17       | 11.34         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD1  | 20       | 11.34         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD2  | 20       | 11.34         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD1  | 20       | 11.34         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD2  | 20       | 11.34         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 20       | 11.34         |
| (1,3335) | 1:A:15:ARG:HB3  | 1:A:24:GLY:H    | 16       | 11.34         |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 10       | 11.34         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB2  | 15       | 11.34         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB3  | 15       | 11.34         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1  | 7        | 11.34         |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2  | 7        | 11.34         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 12       | 11.34         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 12       | 11.34         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 9        | 11.34         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 9        | 11.34         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 4        | 11.34         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 11       | 11.34         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 1        | 11.34         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 1        | 11.34         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 9        | 11.34         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 9        | 11.34         |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H    | 18       | 11.34         |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H    | 19       | 11.34         |
| (1,2838) | 1:A:11:TRP:HE1  | 1:A:15:ARG:H    | 7        | 11.34         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2469) | 1:A:10:GLY:H    | 1:A:22:GLN:HE21 | 7        | 11.34         |
| (1,2469) | 1:A:10:GLY:H    | 1:A:22:GLN:HE22 | 7        | 11.34         |
| (1,2456) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HD2  | 9        | 11.34         |
| (1,2456) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HD2  | 9        | 11.34         |
| (1,2338) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HB2  | 1        | 11.34         |
| (1,2321) | 1:A:9:PRO:HG2   | 1:A:21:SER:HB2  | 10       | 11.34         |
| (1,2175) | 1:A:9:PRO:HA    | 1:A:27:GLY:H    | 17       | 11.34         |
| (1,2076) | 1:A:8:GLY:H     | 1:A:33:CYS:HB3  | 20       | 11.34         |
| (1,1977) | 1:A:7:CYS:HA    | 1:A:32:TYR:H    | 2        | 11.34         |
| (1,1932) | 1:A:7:CYS:H     | 1:A:15:ARG:HE   | 17       | 11.34         |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H    | 5        | 11.34         |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H    | 10       | 11.34         |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H    | 13       | 11.34         |
| (1,1807) | 1:A:6:GLN:HE21  | 1:A:15:ARG:H    | 17       | 11.34         |
| (1,1602) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HB2  | 18       | 11.34         |
| (1,1594) | 1:A:6:GLN:HB2   | 1:A:16:GLY:H    | 14       | 11.34         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB2  | 12       | 11.34         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB3  | 12       | 11.34         |
| (1,1337) | 1:A:4:ASN:HD22  | 1:A:15:ARG:H    | 11       | 11.34         |
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H    | 2        | 11.34         |
| (1,1290) | 1:A:4:ASN:HD21  | 1:A:28:SER:H    | 19       | 11.34         |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H    | 16       | 11.34         |
| (1,963)  | 1:A:3:PRO:HD2   | 1:A:19:CYS:H    | 7        | 11.33         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 2        | 11.33         |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 2        | 11.33         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2  | 16       | 11.33         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2  | 13       | 11.33         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3  | 13       | 11.33         |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H    | 10       | 11.33         |
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA   | 14       | 11.33         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2  | 13       | 11.33         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2  | 13       | 11.33         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3  | 13       | 11.33         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3  | 13       | 11.33         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 18       | 11.33         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1  | 8        | 11.33         |
| (1,3565) | 1:A:17:GLY:H    | 1:A:24:GLY:HA2  | 14       | 11.33         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 5        | 11.33         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 12       | 11.33         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA   | 5        | 11.33         |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 2        | 11.33         |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 4        | 11.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 2        | 11.33         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 8        | 11.33         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 8        | 11.33         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 12       | 11.33         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 12       | 11.33         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 20       | 11.33         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 13       | 11.33         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 8        | 11.33         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 8        | 11.33         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2  | 12       | 11.33         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3  | 12       | 11.33         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 14       | 11.33         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 16       | 11.33         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 18       | 11.33         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 18       | 11.33         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3  | 15       | 11.33         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 13       | 11.33         |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 8        | 11.33         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 7        | 11.33         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 14       | 11.33         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 14       | 11.33         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 6        | 11.33         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 9        | 11.33         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 9        | 11.33         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 2        | 11.33         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 10       | 11.33         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 10       | 11.33         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 6        | 11.33         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 18       | 11.33         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 18       | 11.33         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 2        | 11.33         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 13       | 11.33         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 19       | 11.33         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 11       | 11.32         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 11       | 11.32         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 3        | 11.32         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 10       | 11.32         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD1  | 7        | 11.32         |
| (1,823)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HD2  | 7        | 11.32         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 14       | 11.32         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 2        | 11.32         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 17       | 11.32         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2  | 17       | 11.32         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 6        | 11.32         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2  | 1        | 11.32         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3  | 1        | 11.32         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 6        | 11.32         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 6        | 11.32         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 2        | 11.32         |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 12       | 11.32         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 15       | 11.32         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 6        | 11.32         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 20       | 11.32         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 9        | 11.32         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 9        | 11.32         |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H    | 5        | 11.32         |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H    | 5        | 11.32         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 10       | 11.32         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 16       | 11.32         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 17       | 11.32         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 5        | 11.32         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 10       | 11.32         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 17       | 11.32         |
| (1,3252) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HG3  | 1        | 11.32         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 18       | 11.32         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 18       | 11.32         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 13       | 11.32         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2  | 20       | 11.32         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3  | 20       | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 7        | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 7        | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 11       | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 11       | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 15       | 11.32         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 15       | 11.32         |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2  | 3        | 11.32         |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE21 | 2        | 11.32         |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE22 | 2        | 11.32         |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H    | 7        | 11.32         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE1  | 7        | 11.32         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE2  | 7        | 11.32         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE1  | 16       | 11.32         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE2  | 16       | 11.32         |
| (1,2539) | 1:A:10:GLY:HA3  | 1:A:20:CYS:H    | 13       | 11.32         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 17       | 11.32         |
| (1,2404) | 1:A:9:PRO:HG3  | 1:A:27:GLY:H    | 17       | 11.32         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 9        | 11.32         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 19       | 11.32         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 3        | 11.32         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 3        | 11.32         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 2        | 11.32         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 10       | 11.32         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 18       | 11.32         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 5        | 11.32         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 5        | 11.32         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 13       | 11.32         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 17       | 11.32         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 17       | 11.32         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 9        | 11.32         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 11       | 11.32         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 16       | 11.32         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 16       | 11.32         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 16       | 11.32         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 13       | 11.32         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 2        | 11.32         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 5        | 11.32         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 10       | 11.32         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 1        | 11.32         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 7        | 11.32         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 6        | 11.32         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3  | 6        | 11.32         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 10       | 11.31         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 10       | 11.31         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 12       | 11.31         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 12       | 11.31         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 8        | 11.31         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 8        | 11.31         |
| (1,857)  | 1:A:3:PRO:HB3  | 1:A:21:SER:HG   | 2        | 11.31         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 9        | 11.31         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 9        | 11.31         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 1        | 11.31         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 1        | 11.31         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 6        | 11.31         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 6        | 11.31         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 3        | 11.31         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 15       | 11.31         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB2 | 14       | 11.31         |
| (1,733)  | 1:A:2:GLY:HA3  | 1:A:22:GLN:HB3 | 14       | 11.31         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H   | 20       | 11.31         |
| (1,593)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HD2 | 13       | 11.31         |
| (1,593)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HD2 | 13       | 11.31         |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 14       | 11.31         |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 14       | 11.31         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2 | 3        | 11.31         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H   | 11       | 11.31         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 11       | 11.31         |
| (1,4189) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA2 | 16       | 11.31         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H   | 14       | 11.31         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2 | 8        | 11.31         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3 | 8        | 11.31         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 10       | 11.31         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 10       | 11.31         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2 | 10       | 11.31         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3 | 10       | 11.31         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3 | 10       | 11.31         |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 4        | 11.31         |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 4        | 11.31         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H   | 13       | 11.31         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H   | 13       | 11.31         |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA  | 6        | 11.31         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 7        | 11.31         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 7        | 11.31         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H   | 13       | 11.31         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H   | 8        | 11.31         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H   | 12       | 11.31         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H   | 16       | 11.31         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 5        | 11.31         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 5        | 11.31         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 6        | 11.31         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 6        | 11.31         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 15       | 11.31         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 15       | 11.31         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 12       | 11.31         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1 | 12       | 11.31         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 12       | 11.31         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 8        | 11.31         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 9        | 11.31         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 14       | 11.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2  | 12       | 11.31         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3  | 12       | 11.31         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 15       | 11.31         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 13       | 11.31         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 18       | 11.31         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 14       | 11.31         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 14       | 11.31         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3  | 5        | 11.31         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 1        | 11.31         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 1        | 11.31         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 15       | 11.31         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 15       | 11.31         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 1        | 11.31         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 4        | 11.31         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 19       | 11.31         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 1        | 11.31         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 17       | 11.31         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 8        | 11.31         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 8        | 11.31         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 6        | 11.31         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 6        | 11.31         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 13       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 18       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 18       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 19       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 19       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 20       | 11.31         |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 20       | 11.31         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 5        | 11.31         |
| (1,1498) | 1:A:5:GLY:HA3  | 1:A:34:ALA:H    | 7        | 11.31         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 17       | 11.31         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 17       | 11.31         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 1        | 11.31         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 5        | 11.31         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 18       | 11.31         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 9        | 11.3          |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 9        | 11.3          |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 14       | 11.3          |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 14       | 11.3          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2  | 4        | 11.3          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3  | 4        | 11.3          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2  | 4        | 11.3          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3  | 4        | 11.3          |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 4        | 11.3          |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD1  | 4        | 11.3          |
| (1,804)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HD2  | 4        | 11.3          |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2  | 4        | 11.3          |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H    | 4        | 11.3          |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 7        | 11.3          |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2  | 2        | 11.3          |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2  | 2        | 11.3          |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3  | 2        | 11.3          |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3  | 2        | 11.3          |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 9        | 11.3          |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 9        | 11.3          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1  | 15       | 11.3          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1  | 15       | 11.3          |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 1        | 11.3          |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 12       | 11.3          |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 12       | 11.3          |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 14       | 11.3          |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 14       | 11.3          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 20       | 11.3          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 20       | 11.3          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 11       | 11.3          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 11       | 11.3          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 2        | 11.3          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 17       | 11.3          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 17       | 11.3          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 17       | 11.3          |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 19       | 11.3          |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 19       | 11.3          |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 19       | 11.3          |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 11       | 11.3          |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 11       | 11.3          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 2        | 11.3          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 2        | 11.3          |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2  | 2        | 11.3          |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3  | 2        | 11.3          |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 20       | 11.3          |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 20       | 11.3          |
| (1,3468) | 1:A:16:GLY:H    | 1:A:25:TYR:H    | 14       | 11.3          |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 16       | 11.3          |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 16       | 11.3          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG2  | 1        | 11.3          |
| (1,3411) | 1:A:15:ARG:HD2 | 1:A:30:PRO:HG3  | 1        | 11.3          |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG2  | 1        | 11.3          |
| (1,3411) | 1:A:15:ARG:HD3 | 1:A:30:PRO:HG3  | 1        | 11.3          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H    | 3        | 11.3          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H    | 3        | 11.3          |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG   | 12       | 11.3          |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 8        | 11.3          |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG   | 3        | 11.3          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 6        | 11.3          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 6        | 11.3          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 17       | 11.3          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 17       | 11.3          |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 4        | 11.3          |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 15       | 11.3          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 5        | 11.3          |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 5        | 11.3          |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 1        | 11.3          |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 15       | 11.3          |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 5        | 11.3          |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 14       | 11.3          |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 10       | 11.3          |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 10       | 11.3          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 12       | 11.3          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 12       | 11.3          |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 20       | 11.3          |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 20       | 11.3          |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 11       | 11.3          |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 11       | 11.3          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 10       | 11.3          |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 3        | 11.3          |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 3        | 11.3          |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 18       | 11.3          |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 18       | 11.3          |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 7        | 11.3          |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 16       | 11.3          |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 18       | 11.3          |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 19       | 11.3          |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 20       | 11.3          |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 7        | 11.3          |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 13       | 11.3          |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 19       | 11.3          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 4        | 11.3          |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 5        | 11.3          |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3  | 10       | 11.3          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 20       | 11.3          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 20       | 11.3          |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 11       | 11.3          |
| (1,1935) | 1:A:7:CYS:H    | 1:A:17:GLY:HA2  | 9        | 11.3          |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 17       | 11.3          |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 18       | 11.3          |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 18       | 11.3          |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 19       | 11.3          |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 19       | 11.3          |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 1        | 11.3          |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 9        | 11.3          |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 12       | 11.3          |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 19       | 11.3          |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 19       | 11.3          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB2  | 8        | 11.3          |
| (1,1544) | 1:A:6:GLN:H    | 1:A:33:CYS:HB3  | 8        | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 16       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 16       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 16       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 20       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 20       | 11.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 20       | 11.3          |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 12       | 11.3          |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 12       | 11.3          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB2  | 20       | 11.3          |
| (1,1274) | 1:A:4:ASN:HD21 | 1:A:19:CYS:HB3  | 20       | 11.3          |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 2        | 11.3          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 6        | 11.3          |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 15       | 11.3          |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 3        | 11.3          |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 4        | 11.3          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2  | 14       | 11.3          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3  | 14       | 11.3          |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 9        | 11.29         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 9        | 11.29         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 6        | 11.29         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD1  | 2        | 11.29         |
| (1,823)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HD2  | 2        | 11.29         |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H    | 8        | 11.29         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 3        | 11.29         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H    | 20       | 11.29         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H    | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1  | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2  | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3  | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1  | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2  | 20       | 11.29         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3  | 20       | 11.29         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 4        | 11.29         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 4        | 11.29         |
| (1,4565) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HB2  | 2        | 11.29         |
| (1,4565) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HB2  | 2        | 11.29         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 17       | 11.29         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 17       | 11.29         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 17       | 11.29         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 4        | 11.29         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 4        | 11.29         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 4        | 11.29         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 18       | 11.29         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 18       | 11.29         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 12       | 11.29         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 12       | 11.29         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 6        | 11.29         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 13       | 11.29         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 13       | 11.29         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3  | 1        | 11.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 2        | 11.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 2        | 11.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 10       | 11.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 10       | 11.29         |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 11       | 11.29         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 12       | 11.29         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 10       | 11.29         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 10       | 11.29         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 10       | 11.29         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 10       | 11.29         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 18       | 11.29         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 4        | 11.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 15       | 11.29         |
| (1,3108) | 1:A:13:GLY:H   | 1:A:23:TYR:HB2  | 17       | 11.29         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE21 | 19       | 11.29         |
| (1,3106) | 1:A:13:GLY:H   | 1:A:22:GLN:HE22 | 19       | 11.29         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 9        | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 2        | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 2        | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 19       | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 19       | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 20       | 11.29         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 20       | 11.29         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 12       | 11.29         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 20       | 11.29         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 14       | 11.29         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 16       | 11.29         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 11       | 11.29         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 11       | 11.29         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 2        | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 5        | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 5        | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 10       | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 10       | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 20       | 11.29         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 20       | 11.29         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 18       | 11.29         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 4        | 11.29         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3  | 2        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 2        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 2        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 3        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 3        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 4        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 4        | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1  | 12       | 11.29         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2  | 12       | 11.29         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 15       | 11.29         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 11       | 11.29         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 15       | 11.29         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 15       | 11.29         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 20       | 11.29         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 20       | 11.29         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 2        | 11.29         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 2        | 11.29         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2 | 10       | 11.29         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 10       | 11.29         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2 | 14       | 11.29         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 14       | 11.29         |
| (1,1809) | 1:A:6:GLN:HE21  | 1:A:15:ARG:HB2 | 13       | 11.29         |
| (1,1726) | 1:A:6:GLN:HG2   | 1:A:28:SER:H   | 18       | 11.29         |
| (1,1602) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HB2 | 4        | 11.29         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB2 | 7        | 11.29         |
| (1,1544) | 1:A:6:GLN:H     | 1:A:33:CYS:HB3 | 7        | 11.29         |
| (1,1543) | 1:A:6:GLN:H     | 1:A:33:CYS:HA  | 13       | 11.29         |
| (1,1543) | 1:A:6:GLN:H     | 1:A:33:CYS:HA  | 14       | 11.29         |
| (1,1258) | 1:A:4:ASN:HD21  | 1:A:12:GLY:HA2 | 10       | 11.29         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3 | 19       | 11.29         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 3        | 11.29         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 3        | 11.29         |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H   | 17       | 11.29         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2 | 10       | 11.28         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3 | 10       | 11.28         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2 | 10       | 11.28         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3 | 10       | 11.28         |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H   | 6        | 11.28         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H   | 5        | 11.28         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H   | 11       | 11.28         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H   | 9        | 11.28         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2 | 8        | 11.28         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3 | 8        | 11.28         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 16       | 11.28         |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H   | 15       | 11.28         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3 | 11       | 11.28         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3 | 11       | 11.28         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 8        | 11.28         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 9        | 11.28         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 20       | 11.28         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 20       | 11.28         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 20       | 11.28         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2 | 17       | 11.28         |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 2        | 11.28         |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 2        | 11.28         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 7        | 11.28         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 19       | 11.28         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 17       | 11.28         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 18       | 11.28         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 18       | 11.28         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H   | 11       | 11.28         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 6        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 3        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 3        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 7        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 7        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 9        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 9        | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 14       | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 14       | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 16       | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 16       | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 18       | 11.28         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 18       | 11.28         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 1        | 11.28         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 4        | 11.28         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 5        | 11.28         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 6        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1 | 2        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 2        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1 | 4        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 4        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1 | 9        | 11.28         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 9        | 11.28         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 7        | 11.28         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 18       | 11.28         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 19       | 11.28         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 17       | 11.28         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 17       | 11.28         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 16       | 11.28         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 10       | 11.28         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 6        | 11.28         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 8        | 11.28         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 12       | 11.28         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 14       | 11.28         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 20       | 11.28         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 1        | 11.28         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 11       | 11.28         |
| (1,2169) | 1:A:9:PRO:HA   | 1:A:25:TYR:HB3 | 13       | 11.28         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG  | 3        | 11.28         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 12       | 11.28         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 10       | 11.28         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 10       | 11.28         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 3        | 11.28         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 3        | 11.28         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 10       | 11.28         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 10       | 11.28         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 11       | 11.28         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 14       | 11.28         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 16       | 11.28         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 16       | 11.28         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 5        | 11.28         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 5        | 11.28         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 13       | 11.28         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 13       | 11.28         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 11       | 11.28         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 16       | 11.28         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 5        | 11.28         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 19       | 11.28         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 19       | 11.28         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 19       | 11.28         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 12       | 11.28         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 5        | 11.28         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 5        | 11.28         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 11       | 11.28         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 11       | 11.28         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 15       | 11.28         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 7        | 11.28         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 18       | 11.27         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA   | 18       | 11.27         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 14       | 11.27         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 2        | 11.27         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 2        | 11.27         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1  | 5        | 11.27         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2  | 5        | 11.27         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 5        | 11.27         |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H    | 6        | 11.27         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 17       | 11.27         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 19       | 11.27         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 10       | 11.27         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H    | 14       | 11.27         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H    | 14       | 11.27         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1  | 6        | 11.27         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 9        | 11.27         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 9        | 11.27         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 7        | 11.27         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 3        | 11.27         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 3        | 11.27         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 11       | 11.27         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 14       | 11.27         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 14       | 11.27         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 7        | 11.27         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 18       | 11.27         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 19       | 11.27         |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 17       | 11.27         |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 17       | 11.27         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA   | 10       | 11.27         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 6        | 11.27         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 9        | 11.27         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 20       | 11.27         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 16       | 11.27         |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1  | 10       | 11.27         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1  | 15       | 11.27         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2  | 15       | 11.27         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG2  | 14       | 11.27         |
| (1,3143) | 1:A:13:GLY:HA2  | 1:A:31:LYS:HG3  | 14       | 11.27         |
| (1,3043) | 1:A:12:GLY:HA2  | 1:A:27:GLY:HA3  | 17       | 11.27         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA2  | 17       | 11.27         |
| (1,2990) | 1:A:12:GLY:H    | 1:A:17:GLY:HA3  | 17       | 11.27         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB2  | 4        | 11.27         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB3  | 4        | 11.27         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB2  | 8        | 11.27         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB3  | 8        | 11.27         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB2  | 8        | 11.27         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB3  | 8        | 11.27         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB2  | 9        | 11.27         |
| (1,2840) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HB3  | 9        | 11.27         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 10       | 11.27         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 10       | 11.27         |
| (1,2690) | 1:A:11:TRP:HB3  | 1:A:22:GLN:H    | 11       | 11.27         |
| (1,2690) | 1:A:11:TRP:HB3  | 1:A:22:GLN:H    | 12       | 11.27         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE1  | 13       | 11.27         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE2  | 13       | 11.27         |
| (1,2657) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HE1  | 19       | 11.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 19       | 11.27         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 12       | 11.27         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 16       | 11.27         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 20       | 11.27         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 8        | 11.27         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 8        | 11.27         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 8        | 11.27         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 12       | 11.27         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 20       | 11.27         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 2        | 11.27         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 3        | 11.27         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 4        | 11.27         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 4        | 11.27         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 12       | 11.27         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 12       | 11.27         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2 | 6        | 11.27         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 11       | 11.27         |
| (1,2213) | 1:A:9:PRO:HB2  | 1:A:22:GLN:H   | 17       | 11.27         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 11       | 11.27         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 11       | 11.27         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 18       | 11.27         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 18       | 11.27         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 7        | 11.27         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 7        | 11.27         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H   | 15       | 11.27         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 18       | 11.27         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 18       | 11.27         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2 | 20       | 11.27         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3 | 20       | 11.27         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 1        | 11.27         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H   | 8        | 11.27         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 7        | 11.27         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 7        | 11.27         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 7        | 11.27         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 7        | 11.27         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 7        | 11.27         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 7        | 11.27         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 5        | 11.27         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA  | 1        | 11.27         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H   | 19       | 11.27         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 4        | 11.27         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 6        | 11.27         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE1  | 4        | 11.26         |
| (1,926)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HE2  | 4        | 11.26         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE1  | 4        | 11.26         |
| (1,926)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HE2  | 4        | 11.26         |
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA   | 19       | 11.26         |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA   | 19       | 11.26         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2  | 4        | 11.26         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 17       | 11.26         |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H    | 10       | 11.26         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 10       | 11.26         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2  | 12       | 11.26         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3  | 12       | 11.26         |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H    | 8        | 11.26         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 12       | 11.26         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 12       | 11.26         |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H    | 4        | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 2        | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 2        | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 7        | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 7        | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 13       | 11.26         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 13       | 11.26         |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 4        | 11.26         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 7        | 11.26         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 7        | 11.26         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 5        | 11.26         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2  | 4        | 11.26         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3  | 4        | 11.26         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 7        | 11.26         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 5        | 11.26         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 5        | 11.26         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 9        | 11.26         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 15       | 11.26         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG   | 20       | 11.26         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 10       | 11.26         |
| (1,3121) | 1:A:13:GLY:H    | 1:A:28:SER:HB3  | 7        | 11.26         |
| (1,3121) | 1:A:13:GLY:H    | 1:A:28:SER:HB3  | 17       | 11.26         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE21 | 11       | 11.26         |
| (1,3106) | 1:A:13:GLY:H    | 1:A:22:GLN:HE22 | 11       | 11.26         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 2        | 11.26         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 3        | 11.26         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 4        | 11.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 5        | 11.26         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 11       | 11.26         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 11       | 11.26         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2  | 11       | 11.26         |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3  | 11       | 11.26         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 15       | 11.26         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 15       | 11.26         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 8        | 11.26         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 3        | 11.26         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 8        | 11.26         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 9        | 11.26         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 1        | 11.26         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 11       | 11.26         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 15       | 11.26         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 1        | 11.26         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 10       | 11.26         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 13       | 11.26         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 7        | 11.26         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 13       | 11.26         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 17       | 11.26         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 19       | 11.26         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 19       | 11.26         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 15       | 11.26         |
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 20       | 11.26         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 20       | 11.26         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 20       | 11.26         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 2        | 11.26         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 7        | 11.26         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 2        | 11.26         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 10       | 11.26         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 11       | 11.26         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 11       | 11.26         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 20       | 11.26         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 7        | 11.26         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 7        | 11.26         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 18       | 11.26         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 6        | 11.26         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2  | 15       | 11.26         |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3  | 15       | 11.26         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 4        | 11.25         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 4        | 11.25         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2  | 3        | 11.25         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H   | 2        | 11.25         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H   | 18       | 11.25         |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 12       | 11.25         |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 15       | 11.25         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 11       | 11.25         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 11       | 11.25         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 20       | 11.25         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 20       | 11.25         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3 | 7        | 11.25         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3 | 9        | 11.25         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3 | 19       | 11.25         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 15       | 11.25         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2 | 12       | 11.25         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3 | 12       | 11.25         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB2 | 6        | 11.25         |
| (1,3499) | 1:A:16:GLY:HA2  | 1:A:22:GLN:HB3 | 6        | 11.25         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2 | 20       | 11.25         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3 | 20       | 11.25         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2 | 6        | 11.25         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3 | 6        | 11.25         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG  | 1        | 11.25         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG  | 8        | 11.25         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 20       | 11.25         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 20       | 11.25         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 18       | 11.25         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 19       | 11.25         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 8        | 11.25         |
| (1,3320) | 1:A:15:ARG:HB2  | 1:A:35:HIS:HB3 | 8        | 11.25         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG  | 2        | 11.25         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2 | 16       | 11.25         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3 | 16       | 11.25         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ1 | 6        | 11.25         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ2 | 6        | 11.25         |
| (1,3275) | 1:A:15:ARG:H    | 1:A:31:LYS:HZ3 | 6        | 11.25         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 11       | 11.25         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 11       | 11.25         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 11       | 11.25         |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3 | 3        | 11.25         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1 | 4        | 11.25         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2 | 4        | 11.25         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA  | 14       | 11.25         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA  | 15       | 11.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE1  | 13       | 11.25         |
| (1,3036) | 1:A:12:GLY:H   | 1:A:32:TYR:HE2  | 13       | 11.25         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 14       | 11.25         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 14       | 11.25         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 10       | 11.25         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 1        | 11.25         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 1        | 11.25         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 12       | 11.25         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 12       | 11.25         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 1        | 11.25         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 8        | 11.25         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 15       | 11.25         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 1        | 11.25         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 1        | 11.25         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 11       | 11.25         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 11       | 11.25         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 14       | 11.25         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 5        | 11.25         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2  | 8        | 11.25         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3  | 8        | 11.25         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 12       | 11.25         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2  | 15       | 11.25         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3  | 15       | 11.25         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 18       | 11.25         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 18       | 11.25         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 5        | 11.25         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 5        | 11.25         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 5        | 11.25         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 3        | 11.25         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 3        | 11.25         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 8        | 11.25         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB2  | 7        | 11.25         |
| (1,1886) | 1:A:6:GLN:HE22 | 1:A:19:CYS:HB3  | 7        | 11.25         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 6        | 11.25         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 9        | 11.25         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 9        | 11.25         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 5        | 11.25         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 13       | 11.25         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 17       | 11.24         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 17       | 11.24         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 13       | 11.24         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA   | 16       | 11.24         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 16       | 11.24         |
| (1,914)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HA  | 20       | 11.24         |
| (1,914)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HA  | 20       | 11.24         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2 | 14       | 11.24         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1 | 10       | 11.24         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2 | 10       | 11.24         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 20       | 11.24         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H   | 20       | 11.24         |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE  | 16       | 11.24         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2 | 20       | 11.24         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3 | 20       | 11.24         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 9        | 11.24         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 18       | 11.24         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 19       | 11.24         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 20       | 11.24         |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2 | 9        | 11.24         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H   | 3        | 11.24         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H   | 3        | 11.24         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H   | 6        | 11.24         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H   | 6        | 11.24         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2 | 8        | 11.24         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3 | 8        | 11.24         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2 | 15       | 11.24         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3 | 15       | 11.24         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 1        | 11.24         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H   | 18       | 11.24         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3 | 10       | 11.24         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3 | 2        | 11.24         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3 | 2        | 11.24         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 16       | 11.24         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 16       | 11.24         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H   | 15       | 11.24         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H   | 7        | 11.24         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1 | 9        | 11.24         |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2 | 9        | 11.24         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 10       | 11.24         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 14       | 11.24         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 10       | 11.24         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2 | 20       | 11.24         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 7        | 11.24         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 7        | 11.24         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 18       | 11.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2  | 15       | 11.24         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3  | 15       | 11.24         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB2  | 13       | 11.24         |
| (1,2840) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HB3  | 13       | 11.24         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE21 | 19       | 11.24         |
| (1,2695) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HE22 | 19       | 11.24         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 20       | 11.24         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 6        | 11.24         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 6        | 11.24         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 2        | 11.24         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 3        | 11.24         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 10       | 11.24         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2  | 15       | 11.24         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3  | 15       | 11.24         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2  | 16       | 11.24         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3  | 16       | 11.24         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 9        | 11.24         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 4        | 11.24         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 3        | 11.24         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA   | 2        | 11.24         |
| (1,2076) | 1:A:8:GLY:H    | 1:A:33:CYS:HB3  | 17       | 11.24         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 9        | 11.24         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 17       | 11.24         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 12       | 11.24         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 16       | 11.24         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 16       | 11.24         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 5        | 11.24         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 1        | 11.24         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 1        | 11.24         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 13       | 11.24         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 13       | 11.24         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 19       | 11.24         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 1        | 11.24         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA    | 20       | 11.24         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 14       | 11.24         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 10       | 11.24         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 3        | 11.24         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 5        | 11.24         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 5        | 11.24         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 3        | 11.23         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 3        | 11.23         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 18       | 11.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2  | 2        | 11.23         |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3  | 2        | 11.23         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB2  | 20       | 11.23         |
| (1,652)  | 1:A:2:GLY:H    | 1:A:28:SER:HB3  | 20       | 11.23         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 3        | 11.23         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 1        | 11.23         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 3        | 11.23         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 5        | 11.23         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 6        | 11.23         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA   | 11       | 11.23         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H    | 4        | 11.23         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H    | 4        | 11.23         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB2  | 1        | 11.23         |
| (1,4469) | 1:A:24:GLY:HA2 | 1:A:30:PRO:HB3  | 1        | 11.23         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 13       | 11.23         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 13       | 11.23         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 11       | 11.23         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB2  | 5        | 11.23         |
| (1,3499) | 1:A:16:GLY:HA2 | 1:A:22:GLN:HB3  | 5        | 11.23         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 16       | 11.23         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 4        | 11.23         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 2        | 11.23         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3  | 20       | 11.23         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 8        | 11.23         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 18       | 11.23         |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H    | 19       | 11.23         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 4        | 11.23         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H    | 6        | 11.23         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2  | 16       | 11.23         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3  | 16       | 11.23         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 15       | 11.23         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2  | 9        | 11.23         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3  | 9        | 11.23         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2  | 20       | 11.23         |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3  | 20       | 11.23         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 4        | 11.23         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 4        | 11.23         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 4        | 11.23         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 4        | 11.23         |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2  | 5        | 11.23         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 13       | 11.23         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 13       | 11.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1726) | 1:A:6:GLN:HG2  | 1:A:28:SER:H    | 11       | 11.23         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 13       | 11.23         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 1        | 11.23         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 1        | 11.23         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 1        | 11.23         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 10       | 11.23         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 10       | 11.23         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 2        | 11.23         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 2        | 11.23         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 15       | 11.23         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 15       | 11.23         |
| (1,1169) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HA   | 4        | 11.23         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 16       | 11.23         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 16       | 11.23         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 7        | 11.23         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 8        | 11.23         |
| (1,1078) | 1:A:4:ASN:H    | 1:A:22:GLN:H    | 2        | 11.23         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 10       | 11.23         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3  | 10       | 11.23         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 3        | 11.22         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 3        | 11.22         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 8        | 11.22         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 8        | 11.22         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 13       | 11.22         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 13       | 11.22         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 5        | 11.22         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 2        | 11.22         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 16       | 11.22         |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H    | 2        | 11.22         |
| (1,785)  | 1:A:3:PRO:HB2  | 1:A:14:CYS:H    | 5        | 11.22         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 15       | 11.22         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 9        | 11.22         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 9        | 11.22         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 12       | 11.22         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 12       | 11.22         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 5        | 11.22         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 19       | 11.22         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 19       | 11.22         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD2  | 8        | 11.22         |
| (1,585)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HD3  | 8        | 11.22         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD2  | 8        | 11.22         |
| (1,585)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HD3  | 8        | 11.22         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2 | 14       | 11.22         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2 | 14       | 11.22         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3 | 14       | 11.22         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3 | 14       | 11.22         |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H   | 4        | 11.22         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA  | 12       | 11.22         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 6        | 11.22         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 8        | 11.22         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 6        | 11.22         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 1        | 11.22         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3 | 17       | 11.22         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG  | 11       | 11.22         |
| (1,3459) | 1:A:16:GLY:H    | 1:A:21:SER:HG  | 13       | 11.22         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 3        | 11.22         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 3        | 11.22         |
| (1,3356) | 1:A:15:ARG:HB3  | 1:A:35:HIS:HB3 | 10       | 11.22         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 13       | 11.22         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA  | 5        | 11.22         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 3        | 11.22         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 6        | 11.22         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 16       | 11.22         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1 | 8        | 11.22         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2 | 8        | 11.22         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 16       | 11.22         |
| (1,2690) | 1:A:11:TRP:HB3  | 1:A:22:GLN:H   | 9        | 11.22         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2 | 14       | 11.22         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2 | 18       | 11.22         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3 | 18       | 11.22         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2 | 19       | 11.22         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3 | 19       | 11.22         |
| (1,2448) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HG2 | 2        | 11.22         |
| (1,2448) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HG2 | 2        | 11.22         |
| (1,2448) | 1:A:9:PRO:HD2   | 1:A:31:LYS:HG3 | 2        | 11.22         |
| (1,2448) | 1:A:9:PRO:HD3   | 1:A:31:LYS:HG3 | 2        | 11.22         |
| (1,2333) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HB3 | 13       | 11.22         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE1 | 11       | 11.22         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE2 | 11       | 11.22         |
| (1,2226) | 1:A:9:PRO:HB2   | 1:A:26:CYS:HA  | 6        | 11.22         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD1 | 6        | 11.22         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD2 | 6        | 11.22         |
| (1,2103) | 1:A:8:GLY:HA2   | 1:A:35:HIS:HE1 | 3        | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2 | 4        | 11.22         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3 | 4        | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2 | 9        | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3 | 9        | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2 | 14       | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3 | 14       | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2 | 15       | 11.22         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3 | 15       | 11.22         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG2 | 10       | 11.22         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG3 | 10       | 11.22         |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG2 | 4        | 11.22         |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG3 | 4        | 11.22         |
| (1,1430) | 1:A:5:GLY:H     | 1:A:22:GLN:HG3 | 16       | 11.22         |
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H   | 19       | 11.22         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD2  | 5        | 11.22         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD3  | 5        | 11.22         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD2  | 6        | 11.22         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD3  | 6        | 11.22         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3 | 6        | 11.22         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1 | 12       | 11.21         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2 | 12       | 11.21         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H   | 2        | 11.21         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H   | 10       | 11.21         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2 | 3        | 11.21         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2 | 1        | 11.21         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2 | 10       | 11.21         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3 | 10       | 11.21         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG2 | 5        | 11.21         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG2 | 5        | 11.21         |
| (1,583)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HG3 | 5        | 11.21         |
| (1,583)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HG3 | 5        | 11.21         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3 | 13       | 11.21         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3 | 13       | 11.21         |
| (1,4667) | 1:A:26:CYS:HB2  | 1:A:35:HIS:HE1 | 12       | 11.21         |
| (1,4665) | 1:A:26:CYS:HB2  | 1:A:34:ALA:HA  | 17       | 11.21         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H   | 8        | 11.21         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H   | 8        | 11.21         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 7        | 11.21         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 7        | 11.21         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 9        | 11.21         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 9        | 11.21         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 10       | 11.21         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 12       | 11.21         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 12       | 11.21         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 3        | 11.21         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 3        | 11.21         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA   | 7        | 11.21         |
| (1,3513) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB2  | 3        | 11.21         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 10       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 10       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 10       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 18       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 18       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 19       | 11.21         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 19       | 11.21         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 9        | 11.21         |
| (1,3319) | 1:A:15:ARG:HB2  | 1:A:35:HIS:H    | 10       | 11.21         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1  | 1        | 11.21         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2  | 1        | 11.21         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2  | 19       | 11.21         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3  | 19       | 11.21         |
| (1,3265) | 1:A:15:ARG:H    | 1:A:23:TYR:HB3  | 13       | 11.21         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 9        | 11.21         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 9        | 11.21         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 2        | 11.21         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 2        | 11.21         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 4        | 11.21         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 4        | 11.21         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H    | 12       | 11.21         |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2  | 2        | 11.21         |
| (1,2838) | 1:A:11:TRP:HE1  | 1:A:15:ARG:H    | 9        | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2  | 11       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3  | 11       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2  | 18       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3  | 18       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2  | 19       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3  | 19       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2  | 20       | 11.21         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3  | 20       | 11.21         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2  | 11       | 11.21         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3  | 11       | 11.21         |
| (1,2317) | 1:A:9:PRO:HG2   | 1:A:19:CYS:HA   | 5        | 11.21         |
| (1,2226) | 1:A:9:PRO:HB2   | 1:A:26:CYS:HA   | 3        | 11.21         |
| (1,2226) | 1:A:9:PRO:HB2   | 1:A:26:CYS:HA   | 4        | 11.21         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2  | 15       | 11.21         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3 | 15       | 11.21         |
| (1,1809) | 1:A:6:GLN:HE21  | 1:A:15:ARG:HB2 | 15       | 11.21         |
| (1,1584) | 1:A:6:GLN:HA    | 1:A:35:HIS:H   | 11       | 11.21         |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG2 | 5        | 11.21         |
| (1,1463) | 1:A:5:GLY:HA2   | 1:A:31:LYS:HG3 | 5        | 11.21         |
| (1,1258) | 1:A:4:ASN:HD21  | 1:A:12:GLY:HA2 | 18       | 11.21         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H   | 1        | 11.21         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 4        | 11.21         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 4        | 11.21         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H   | 1        | 11.2          |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H   | 1        | 11.2          |
| (1,796)  | 1:A:3:PRO:HB2   | 1:A:21:SER:H   | 19       | 11.2          |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2 | 19       | 11.2          |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3 | 19       | 11.2          |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2 | 7        | 11.2          |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2 | 7        | 11.2          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 18       | 11.2          |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA  | 14       | 11.2          |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 1        | 11.2          |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 1        | 11.2          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 4        | 11.2          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 4        | 11.2          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 4        | 11.2          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 4        | 11.2          |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3 | 6        | 11.2          |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3 | 6        | 11.2          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 2        | 11.2          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 2        | 11.2          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 3        | 11.2          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2 | 2        | 11.2          |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 2        | 11.2          |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA  | 20       | 11.2          |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 17       | 11.2          |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 2        | 11.2          |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3 | 14       | 11.2          |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1 | 1        | 11.2          |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2 | 1        | 11.2          |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE1 | 16       | 11.2          |
| (1,3181) | 1:A:14:CYS:H    | 1:A:23:TYR:HE2 | 16       | 11.2          |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1 | 10       | 11.2          |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2 | 10       | 11.2          |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 8        | 11.2          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 8        | 11.2          |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2 | 9        | 11.2          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 7        | 11.2          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 13       | 11.2          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 14       | 11.2          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 16       | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 1        | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 1        | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 9        | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 9        | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 13       | 11.2          |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 13       | 11.2          |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 1        | 11.2          |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 11       | 11.2          |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 13       | 11.2          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB2 | 17       | 11.2          |
| (1,2491) | 1:A:10:GLY:HA2 | 1:A:18:LEU:HB3 | 17       | 11.2          |
| (1,2385) | 1:A:9:PRO:HG3  | 1:A:21:SER:HB2 | 6        | 11.2          |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 5        | 11.2          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 10       | 11.2          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 10       | 11.2          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 15       | 11.2          |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 15       | 11.2          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 10       | 11.2          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 10       | 11.2          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 14       | 11.2          |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 14       | 11.2          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 19       | 11.2          |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H   | 2        | 11.2          |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 15       | 11.2          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 1        | 11.2          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 1        | 11.2          |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H   | 9        | 11.2          |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 15       | 11.2          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 18       | 11.2          |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 4        | 11.2          |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 17       | 11.2          |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1 | 9        | 11.19         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2 | 9        | 11.19         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG  | 17       | 11.19         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H   | 15       | 11.19         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H   | 15       | 11.19         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,914)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HA   | 7        | 11.19         |
| (1,914)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HA   | 7        | 11.19         |
| (1,864)  | 1:A:3:PRO:HB3   | 1:A:24:GLY:HA2  | 10       | 11.19         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2  | 18       | 11.19         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3  | 18       | 11.19         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 16       | 11.19         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 17       | 11.19         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 17       | 11.19         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 17       | 11.19         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 17       | 11.19         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 2        | 11.19         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 2        | 11.19         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA   | 16       | 11.19         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 17       | 11.19         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 17       | 11.19         |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 15       | 11.19         |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 8        | 11.19         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 2        | 11.19         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 2        | 11.19         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 2        | 11.19         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H    | 13       | 11.19         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 3        | 11.19         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 3        | 11.19         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG2  | 17       | 11.19         |
| (1,3479) | 1:A:16:GLY:H    | 1:A:30:PRO:HG3  | 17       | 11.19         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 10       | 11.19         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 10       | 11.19         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 14       | 11.19         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H    | 18       | 11.19         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H    | 19       | 11.19         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 6        | 11.19         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 6        | 11.19         |
| (1,2653) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HB3  | 17       | 11.19         |
| (1,2503) | 1:A:10:GLY:HA2  | 1:A:25:TYR:H    | 4        | 11.19         |
| (1,2503) | 1:A:10:GLY:HA2  | 1:A:25:TYR:H    | 6        | 11.19         |
| (1,2503) | 1:A:10:GLY:HA2  | 1:A:25:TYR:H    | 10       | 11.19         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2  | 1        | 11.19         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3  | 1        | 11.19         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2  | 13       | 11.19         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3  | 13       | 11.19         |
| (1,2333) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HB3  | 10       | 11.19         |
| (1,2325) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HE21 | 20       | 11.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 20       | 11.19         |
| (1,2203) | 1:A:9:PRO:HB2  | 1:A:15:ARG:HE   | 7        | 11.19         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 2        | 11.19         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 2        | 11.19         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 16       | 11.19         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 16       | 11.19         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 11       | 11.19         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 13       | 11.19         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 13       | 11.19         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 4        | 11.19         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 10       | 11.19         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 12       | 11.19         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 12       | 11.19         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 12       | 11.19         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 12       | 11.19         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 11       | 11.19         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 11       | 11.19         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 12       | 11.19         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 12       | 11.19         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 15       | 11.19         |
| (1,1584) | 1:A:6:GLN:HA   | 1:A:35:HIS:H    | 19       | 11.19         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 1        | 11.19         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 12       | 11.19         |
| (1,1327) | 1:A:4:ASN:HD22 | 1:A:10:GLY:H    | 15       | 11.19         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 2        | 11.19         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 2        | 11.19         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 3        | 11.19         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 15       | 11.19         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 10       | 11.19         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 10       | 11.19         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 15       | 11.19         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 11       | 11.18         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 11       | 11.18         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1  | 6        | 11.18         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2  | 6        | 11.18         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1  | 6        | 11.18         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2  | 6        | 11.18         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 13       | 11.18         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 13       | 11.18         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 5        | 11.18         |
| (1,864)  | 1:A:3:PRO:HB3  | 1:A:24:GLY:HA2  | 6        | 11.18         |
| (1,796)  | 1:A:3:PRO:HB2  | 1:A:21:SER:H    | 7        | 11.18         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2 | 7        | 11.18         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3 | 7        | 11.18         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2 | 7        | 11.18         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3 | 7        | 11.18         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H   | 15       | 11.18         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H   | 15       | 11.18         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 11       | 11.18         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 11       | 11.18         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 14       | 11.18         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 14       | 11.18         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 3        | 11.18         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 3        | 11.18         |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 2        | 11.18         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 5        | 11.18         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 19       | 11.18         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 19       | 11.18         |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 4        | 11.18         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 4        | 11.18         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 4        | 11.18         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 6        | 11.18         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 6        | 11.18         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD1 | 16       | 11.18         |
| (1,3368) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HD2 | 16       | 11.18         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD1 | 16       | 11.18         |
| (1,3368) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HD2 | 16       | 11.18         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 5        | 11.18         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1 | 15       | 11.18         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2 | 15       | 11.18         |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1 | 19       | 11.18         |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3 | 12       | 11.18         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 8        | 11.18         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 8        | 11.18         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB2 | 12       | 11.18         |
| (1,3104) | 1:A:13:GLY:H    | 1:A:22:GLN:HB3 | 12       | 11.18         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 7        | 11.18         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 10       | 11.18         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 20       | 11.18         |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA  | 11       | 11.18         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB2 | 7        | 11.18         |
| (1,2533) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HB3 | 7        | 11.18         |
| (1,2503) | 1:A:10:GLY:HA2  | 1:A:25:TYR:H   | 2        | 11.18         |
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB2 | 7        | 11.18         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2491) | 1:A:10:GLY:HA2  | 1:A:18:LEU:HB3  | 7        | 11.18         |
| (1,2385) | 1:A:9:PRO:HG3   | 1:A:21:SER:HB2  | 3        | 11.18         |
| (1,2333) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HB3  | 2        | 11.18         |
| (1,2317) | 1:A:9:PRO:HG2   | 1:A:19:CYS:HA   | 17       | 11.18         |
| (1,2216) | 1:A:9:PRO:HB2   | 1:A:23:TYR:H    | 7        | 11.18         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD1  | 9        | 11.18         |
| (1,2166) | 1:A:9:PRO:HA    | 1:A:23:TYR:HD2  | 9        | 11.18         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB2  | 11       | 11.18         |
| (1,1914) | 1:A:6:GLN:HE22  | 1:A:32:TYR:HB3  | 11       | 11.18         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB2  | 4        | 11.18         |
| (1,1894) | 1:A:6:GLN:HE22  | 1:A:22:GLN:HB3  | 4        | 11.18         |
| (1,1817) | 1:A:6:GLN:HE21  | 1:A:19:CYS:H    | 1        | 11.18         |
| (1,1337) | 1:A:4:ASN:HD22  | 1:A:15:ARG:H    | 15       | 11.18         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 13       | 11.18         |
| (1,1149) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HB3  | 5        | 11.18         |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H    | 3        | 11.18         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD1  | 14       | 11.17         |
| (1,990)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HD2  | 14       | 11.17         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA   | 12       | 11.17         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA   | 12       | 11.17         |
| (1,785)  | 1:A:3:PRO:HB2   | 1:A:14:CYS:H    | 10       | 11.17         |
| (1,4631) | 1:A:26:CYS:H    | 1:A:35:HIS:HE1  | 19       | 11.17         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 10       | 11.17         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 15       | 11.17         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1  | 17       | 11.17         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1  | 17       | 11.17         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 19       | 11.17         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 19       | 11.17         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 9        | 11.17         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 9        | 11.17         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2  | 16       | 11.17         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3  | 16       | 11.17         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2  | 7        | 11.17         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 13       | 11.17         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 13       | 11.17         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 13       | 11.17         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 12       | 11.17         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 15       | 11.17         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3  | 15       | 11.17         |
| (1,3418) | 1:A:15:ARG:HD2  | 1:A:35:HIS:HE1  | 12       | 11.17         |
| (1,3418) | 1:A:15:ARG:HD3  | 1:A:35:HIS:HE1  | 12       | 11.17         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA   | 9        | 11.17         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2  | 20       | 11.17         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3  | 20       | 11.17         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1  | 17       | 11.17         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2  | 17       | 11.17         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 2        | 11.17         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 16       | 11.17         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 19       | 11.17         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 19       | 11.17         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 12       | 11.17         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 12       | 11.17         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 15       | 11.17         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 3        | 11.17         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 5        | 11.17         |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1  | 16       | 11.17         |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1  | 16       | 11.17         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 10       | 11.17         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 7        | 11.17         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 7        | 11.17         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 9        | 11.17         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 9        | 11.17         |
| (1,2109) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HG   | 17       | 11.17         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 17       | 11.17         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 3        | 11.17         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 1        | 11.17         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 1        | 11.17         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 13       | 11.17         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 11       | 11.17         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 8        | 11.17         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 6        | 11.16         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 6        | 11.16         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 11       | 11.16         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 11       | 11.16         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3  | 17       | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 3        | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 3        | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 17       | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 17       | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 18       | 11.16         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 18       | 11.16         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 18       | 11.16         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 18       | 11.16         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 18       | 11.16         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 18       | 11.16         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 18       | 11.16         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 18       | 11.16         |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H   | 15       | 11.16         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA  | 13       | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 3        | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 3        | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 6        | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 6        | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 12       | 11.16         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 12       | 11.16         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H   | 18       | 11.16         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 18       | 11.16         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H   | 20       | 11.16         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 20       | 11.16         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H   | 15       | 11.16         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H   | 15       | 11.16         |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H   | 8        | 11.16         |
| (1,4448) | 1:A:24:GLY:H   | 1:A:29:GLY:HA2 | 17       | 11.16         |
| (1,3680) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HA  | 11       | 11.16         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H   | 2        | 11.16         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2 | 6        | 11.16         |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3 | 6        | 11.16         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 15       | 11.16         |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 5        | 11.16         |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 6        | 11.16         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 18       | 11.16         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 19       | 11.16         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 7        | 11.16         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 7        | 11.16         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 12       | 11.16         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H   | 4        | 11.16         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H   | 14       | 11.16         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 5        | 11.16         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 1        | 11.16         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3 | 11       | 11.16         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 2        | 11.16         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA  | 6        | 11.16         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 7        | 11.16         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 16       | 11.16         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 18       | 11.16         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 19       | 11.16         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG2  | 4        | 11.16         |
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG3  | 4        | 11.16         |
| (1,1887) | 1:A:6:GLN:HE22  | 1:A:20:CYS:H    | 9        | 11.16         |
| (1,1884) | 1:A:6:GLN:HE22  | 1:A:19:CYS:H    | 1        | 11.16         |
| (1,1601) | 1:A:6:GLN:HB2   | 1:A:22:GLN:HG2  | 6        | 11.16         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 5        | 11.16         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 5        | 11.16         |
| (1,1339) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HG2  | 16       | 11.16         |
| (1,1339) | 1:A:4:ASN:HD22  | 1:A:15:ARG:HG3  | 16       | 11.16         |
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H    | 8        | 11.16         |
| (1,1327) | 1:A:4:ASN:HD22  | 1:A:10:GLY:H    | 9        | 11.16         |
| (1,1258) | 1:A:4:ASN:HD21  | 1:A:12:GLY:HA2  | 7        | 11.16         |
| (1,1213) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HA   | 17       | 11.16         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA   | 11       | 11.15         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA   | 11       | 11.15         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 16       | 11.15         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 16       | 11.15         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 20       | 11.15         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 20       | 11.15         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 13       | 11.15         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2  | 5        | 11.15         |
| (1,803)  | 1:A:3:PRO:HB2   | 1:A:23:TYR:HB2  | 14       | 11.15         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 14       | 11.15         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1  | 8        | 11.15         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2  | 8        | 11.15         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 14       | 11.15         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 12       | 11.15         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 12       | 11.15         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 12       | 11.15         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 12       | 11.15         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 8        | 11.15         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 8        | 11.15         |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1  | 16       | 11.15         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 14       | 11.15         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 4        | 11.15         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 4        | 11.15         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 11       | 11.15         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 11       | 11.15         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 11       | 11.15         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 14       | 11.15         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 5        | 11.15         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 5        | 11.15         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2 | 3        | 11.15         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3 | 3        | 11.15         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2 | 19       | 11.15         |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3 | 19       | 11.15         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 13       | 11.15         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 13       | 11.15         |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 5        | 11.15         |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 5        | 11.15         |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3 | 10       | 11.15         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2 | 19       | 11.15         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3 | 19       | 11.15         |
| (1,3121) | 1:A:13:GLY:H   | 1:A:28:SER:HB3 | 16       | 11.15         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 18       | 11.15         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 18       | 11.15         |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 8        | 11.15         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H   | 9        | 11.15         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 19       | 11.15         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 1        | 11.15         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA  | 10       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 18       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 20       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 20       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 20       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 20       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 20       | 11.15         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 20       | 11.15         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 9        | 11.15         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 16       | 11.15         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 18       | 11.15         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 19       | 11.15         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 7        | 11.15         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2 | 8        | 11.15         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3 | 8        | 11.15         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 12       | 11.15         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 5        | 11.15         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 5        | 11.15         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 5        | 11.15         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 5        | 11.15         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG  | 15       | 11.14         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1 | 3        | 11.14         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2 | 3        | 11.14         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3 | 20       | 11.14         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2 | 16       | 11.14         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3 | 16       | 11.14         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H   | 2        | 11.14         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2 | 4        | 11.14         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ1 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ2 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB2   | 1:A:31:LYS:HZ3 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ1 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ2 | 4        | 11.14         |
| (1,586)  | 1:A:1:SER:HB3   | 1:A:31:LYS:HZ3 | 4        | 11.14         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2 | 9        | 11.14         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3 | 9        | 11.14         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2 | 14       | 11.14         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3 | 14       | 11.14         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 3        | 11.14         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 3        | 11.14         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 3        | 11.14         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 3        | 11.14         |
| (1,4553) | 1:A:25:TYR:HB3  | 1:A:34:ALA:HA  | 7        | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 18       | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 18       | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 19       | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 19       | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB2 | 20       | 11.14         |
| (1,4469) | 1:A:24:GLY:HA2  | 1:A:30:PRO:HB3 | 20       | 11.14         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 18       | 11.14         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 19       | 11.14         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 20       | 11.14         |
| (1,4392) | 1:A:23:TYR:HB3  | 1:A:35:HIS:HE1 | 1        | 11.14         |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 9        | 11.14         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 8        | 11.14         |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1 | 13       | 11.14         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 6        | 11.14         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 14       | 11.14         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2 | 1        | 11.14         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3 | 1        | 11.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3 | 4        | 11.14         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2 | 6        | 11.14         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3 | 6        | 11.14         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H   | 5        | 11.14         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1 | 9        | 11.14         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2 | 9        | 11.14         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3 | 9        | 11.14         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3 | 7        | 11.14         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 10       | 11.14         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 10       | 11.14         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 9        | 11.14         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 9        | 11.14         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 19       | 11.14         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 19       | 11.14         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 7        | 11.14         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 12       | 11.14         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 19       | 11.14         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H   | 11       | 11.14         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H   | 15       | 11.14         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB2 | 13       | 11.14         |
| (1,2851) | 1:A:11:TRP:HE1 | 1:A:19:CYS:HB3 | 13       | 11.14         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 8        | 11.14         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 8        | 11.14         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 7        | 11.14         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 18       | 11.14         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1 | 14       | 11.14         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2 | 14       | 11.14         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA  | 2        | 11.14         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA  | 3        | 11.14         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB2 | 17       | 11.14         |
| (1,2533) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HB3 | 17       | 11.14         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 4        | 11.14         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 10       | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 9        | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 19       | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 19       | 11.14         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 19       | 11.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 19       | 11.14         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 19       | 11.14         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 19       | 11.14         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1 | 6        | 11.14         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2 | 6        | 11.14         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 14       | 11.14         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 20       | 11.14         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 5        | 11.14         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 5        | 11.14         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2 | 6        | 11.14         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3 | 6        | 11.14         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 16       | 11.14         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 16       | 11.14         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 16       | 11.14         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 17       | 11.14         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 11       | 11.14         |
| (1,1252) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HA   | 15       | 11.14         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 6        | 11.14         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 10       | 11.14         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1 | 13       | 11.13         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2 | 13       | 11.13         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H   | 12       | 11.13         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H   | 12       | 11.13         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H   | 1        | 11.13         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 4        | 11.13         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 18       | 11.13         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 18       | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 1        | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 1        | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 8        | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 8        | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 11       | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 11       | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 15       | 11.13         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 15       | 11.13         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2 | 6        | 11.13         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2 | 6        | 11.13         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3 | 6        | 11.13         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3 | 6        | 11.13         |
| (1,4556) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HE1 | 20       | 11.13         |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H   | 10       | 11.13         |
| (1,4448) | 1:A:24:GLY:H   | 1:A:29:GLY:HA2 | 2        | 11.13         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2  | 16       | 11.13         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 9        | 11.13         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 9        | 11.13         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 18       | 11.13         |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 10       | 11.13         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 1        | 11.13         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 13       | 11.13         |
| (1,3658) | 1:A:18:LEU:H    | 1:A:31:LYS:HG3  | 15       | 11.13         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 16       | 11.13         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 2        | 11.13         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 10       | 11.13         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 1        | 11.13         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 1        | 11.13         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 6        | 11.13         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 17       | 11.13         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA   | 7        | 11.13         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 10       | 11.13         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 10       | 11.13         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 12       | 11.13         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 12       | 11.13         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 13       | 11.13         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 13       | 11.13         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H    | 3        | 11.13         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 8        | 11.13         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 9        | 11.13         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 16       | 11.13         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 18       | 11.13         |
| (1,2871) | 1:A:11:TRP:HE1  | 1:A:27:GLY:H    | 20       | 11.13         |
| (1,2789) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HG   | 16       | 11.13         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 5        | 11.13         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 5        | 11.13         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB2  | 15       | 11.13         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB3  | 15       | 11.13         |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE   | 5        | 11.13         |
| (1,2590) | 1:A:11:TRP:H    | 1:A:19:CYS:HB3  | 11       | 11.13         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 4        | 11.13         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 5        | 11.13         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 6        | 11.13         |
| (1,2470) | 1:A:10:GLY:H    | 1:A:23:TYR:H    | 2        | 11.13         |
| (1,2419) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HA   | 6        | 11.13         |
| (1,2389) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HE21 | 13       | 11.13         |
| (1,2389) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HE22 | 13       | 11.13         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2162) | 1:A:9:PRO:HA   | 1:A:22:GLN:HG3  | 5        | 11.13         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 10       | 11.13         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 10       | 11.13         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 8        | 11.13         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 9        | 11.13         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 9        | 11.13         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 11       | 11.13         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 1        | 11.13         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 16       | 11.13         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 4        | 11.13         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 2        | 11.13         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 14       | 11.13         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 1        | 11.13         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 1        | 11.12         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 1        | 11.12         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 15       | 11.12         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 15       | 11.12         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 18       | 11.12         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 18       | 11.12         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 1        | 11.12         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 1        | 11.12         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2  | 2        | 11.12         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3  | 2        | 11.12         |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2  | 2        | 11.12         |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3  | 2        | 11.12         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 1        | 11.12         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 1        | 11.12         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 7        | 11.12         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 7        | 11.12         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3  | 3        | 11.12         |
| (1,651)  | 1:A:2:GLY:H    | 1:A:28:SER:H    | 10       | 11.12         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 17       | 11.12         |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H    | 4        | 11.12         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 4        | 11.12         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H    | 12       | 11.12         |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H    | 12       | 11.12         |
| (1,4448) | 1:A:24:GLY:H   | 1:A:29:GLY:HA2  | 3        | 11.12         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 12       | 11.12         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 15       | 11.12         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 15       | 11.12         |
| (1,3680) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HA   | 4        | 11.12         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 6        | 11.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 6        | 11.12         |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3  | 10       | 11.12         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 15       | 11.12         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA   | 18       | 11.12         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD1  | 17       | 11.12         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD2  | 17       | 11.12         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 2        | 11.12         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2  | 12       | 11.12         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 20       | 11.12         |
| (1,3459) | 1:A:16:GLY:H   | 1:A:21:SER:HG   | 14       | 11.12         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 6        | 11.12         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 15       | 11.12         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 15       | 11.12         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 15       | 11.12         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 15       | 11.12         |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 16       | 11.12         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 12       | 11.12         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 12       | 11.12         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 5        | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 9        | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 9        | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 18       | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 18       | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 19       | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 19       | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2  | 20       | 11.12         |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3  | 20       | 11.12         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 5        | 11.12         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 15       | 11.12         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 15       | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 7        | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 8        | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 15       | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 18       | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 19       | 11.12         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 20       | 11.12         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 9        | 11.12         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 9        | 11.12         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 3        | 11.12         |
| (1,2317) | 1:A:9:PRO:HG2  | 1:A:19:CYS:HA   | 4        | 11.12         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 20       | 11.12         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 16       | 11.12         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H   | 20       | 11.12         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 1        | 11.12         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 1        | 11.12         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 1        | 11.12         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H   | 16       | 11.12         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 8        | 11.12         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 8        | 11.12         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2 | 17       | 11.12         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3 | 17       | 11.12         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 12       | 11.12         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H   | 16       | 11.12         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 11       | 11.12         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2 | 12       | 11.12         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2 | 17       | 11.12         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2 | 14       | 11.12         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 12       | 11.12         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG  | 1        | 11.11         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2 | 17       | 11.11         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3 | 17       | 11.11         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 9        | 11.11         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 9        | 11.11         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H   | 12       | 11.11         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 11       | 11.11         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1 | 15       | 11.11         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2 | 15       | 11.11         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 9        | 11.11         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 18       | 11.11         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 16       | 11.11         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 16       | 11.11         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 16       | 11.11         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 16       | 11.11         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 20       | 11.11         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 20       | 11.11         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 20       | 11.11         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 20       | 11.11         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 5        | 11.11         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 5        | 11.11         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 13       | 11.11         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 13       | 11.11         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H   | 3        | 11.11         |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H   | 3        | 11.11         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H   | 6        | 11.11         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 6        | 11.11         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 13       | 11.11         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 13       | 11.11         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 1        | 11.11         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 6        | 11.11         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 11       | 11.11         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 13       | 11.11         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 14       | 11.11         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 4        | 11.11         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 4        | 11.11         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 4        | 11.11         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA  | 3        | 11.11         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA  | 6        | 11.11         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 3        | 11.11         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1 | 2        | 11.11         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2 | 2        | 11.11         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 13       | 11.11         |
| (1,3576) | 1:A:17:GLY:H    | 1:A:31:LYS:HA  | 19       | 11.11         |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 12       | 11.11         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG  | 1        | 11.11         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H   | 20       | 11.11         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD1 | 14       | 11.11         |
| (1,3298) | 1:A:15:ARG:HB2  | 1:A:23:TYR:HD2 | 14       | 11.11         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG2 | 20       | 11.11         |
| (1,3287) | 1:A:15:ARG:HA   | 1:A:31:LYS:HG3 | 20       | 11.11         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1 | 20       | 11.11         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2 | 20       | 11.11         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H   | 9        | 11.11         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H   | 18       | 11.11         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H   | 19       | 11.11         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H   | 20       | 11.11         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 6        | 11.11         |
| (1,3001) | 1:A:12:GLY:H    | 1:A:22:GLN:H   | 14       | 11.11         |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H   | 1        | 11.11         |
| (1,2792) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HB2 | 16       | 11.11         |
| (1,2792) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HB3 | 16       | 11.11         |
| (1,2781) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HA  | 12       | 11.11         |
| (1,2590) | 1:A:11:TRP:H    | 1:A:19:CYS:HB3 | 15       | 11.11         |
| (1,2541) | 1:A:10:GLY:HA3  | 1:A:21:SER:H   | 16       | 11.11         |
| (1,2494) | 1:A:10:GLY:HA2  | 1:A:21:SER:H   | 17       | 11.11         |
| (1,2454) | 1:A:9:PRO:HD2   | 1:A:33:CYS:H   | 17       | 11.11         |
| (1,2454) | 1:A:9:PRO:HD3   | 1:A:33:CYS:H   | 17       | 11.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE1  | 5        | 11.11         |
| (1,2329) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HE2  | 5        | 11.11         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 3        | 11.11         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 3        | 11.11         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 15       | 11.11         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 19       | 11.11         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 20       | 11.11         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 20       | 11.11         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 18       | 11.11         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 7        | 11.11         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 18       | 11.11         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 19       | 11.11         |
| (1,1887) | 1:A:6:GLN:HE22 | 1:A:20:CYS:H    | 20       | 11.11         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 11       | 11.11         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2  | 15       | 11.11         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 1        | 11.11         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 15       | 11.11         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 8        | 11.11         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 7        | 11.11         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 7        | 11.11         |
| (1,1136) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HB3  | 1        | 11.11         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 2        | 11.11         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 6        | 11.11         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 11       | 11.11         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 8        | 11.1          |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 8        | 11.1          |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 12       | 11.1          |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 7        | 11.1          |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 7        | 11.1          |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2  | 10       | 11.1          |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3  | 12       | 11.1          |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3  | 19       | 11.1          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 15       | 11.1          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 15       | 11.1          |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 15       | 11.1          |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 15       | 11.1          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 2        | 11.1          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 19       | 11.1          |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 2        | 11.1          |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2  | 17       | 11.1          |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3  | 17       | 11.1          |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H    | 7        | 11.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 7        | 11.1          |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H   | 17       | 11.1          |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 17       | 11.1          |
| (1,4448) | 1:A:24:GLY:H   | 1:A:29:GLY:HA2 | 9        | 11.1          |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H   | 17       | 11.1          |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1 | 15       | 11.1          |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1 | 10       | 11.1          |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2 | 10       | 11.1          |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 9        | 11.1          |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 9        | 11.1          |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H   | 11       | 11.1          |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 13       | 11.1          |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 13       | 11.1          |
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA  | 11       | 11.1          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 17       | 11.1          |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 18       | 11.1          |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2 | 16       | 11.1          |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3 | 16       | 11.1          |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H   | 7        | 11.1          |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 14       | 11.1          |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB2 | 7        | 11.1          |
| (1,2792) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HB3 | 7        | 11.1          |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 18       | 11.1          |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 19       | 11.1          |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2 | 12       | 11.1          |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3 | 12       | 11.1          |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2 | 16       | 11.1          |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3 | 16       | 11.1          |
| (1,2690) | 1:A:11:TRP:HB3 | 1:A:22:GLN:H   | 17       | 11.1          |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 3        | 11.1          |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 13       | 11.1          |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 1        | 11.1          |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 9        | 11.1          |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 11       | 11.1          |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 12       | 11.1          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 14       | 11.1          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 14       | 11.1          |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 5        | 11.1          |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H   | 6        | 11.1          |
| (1,2356) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HA  | 17       | 11.1          |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 8        | 11.1          |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 8        | 11.1          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 15       | 11.1          |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H   | 19       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 16       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 16       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 18       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 18       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2 | 20       | 11.1          |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3 | 20       | 11.1          |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 11       | 11.1          |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 12       | 11.1          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 2        | 11.1          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 19       | 11.1          |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2 | 1        | 11.1          |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 12       | 11.1          |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG  | 14       | 11.1          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA2 | 17       | 11.1          |
| (1,1067) | 1:A:4:ASN:H    | 1:A:17:GLY:HA3 | 17       | 11.1          |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H   | 11       | 11.1          |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H   | 19       | 11.09         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H   | 19       | 11.09         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H   | 9        | 11.09         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD1 | 15       | 11.09         |
| (1,804)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HD2 | 15       | 11.09         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H   | 14       | 11.09         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H   | 12       | 11.09         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 1        | 11.09         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2 | 9        | 11.09         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3 | 9        | 11.09         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 5        | 11.09         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 5        | 11.09         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 5        | 11.09         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 5        | 11.09         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 5        | 11.09         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 5        | 11.09         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2 | 19       | 11.09         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2 | 19       | 11.09         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3 | 19       | 11.09         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3 | 19       | 11.09         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3 | 2        | 11.09         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3 | 4        | 11.09         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H   | 5        | 11.09         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H   | 5        | 11.09         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 10       | 11.09         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 10       | 11.09         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2  | 15       | 11.09         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 11       | 11.09         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 5        | 11.09         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 7        | 11.09         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 7        | 11.09         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 16       | 11.09         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 16       | 11.09         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 11.09         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 11.09         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 7        | 11.09         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 13       | 11.09         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA   | 20       | 11.09         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2  | 18       | 11.09         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3  | 18       | 11.09         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2  | 19       | 11.09         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3  | 19       | 11.09         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 7        | 11.09         |
| (1,3101) | 1:A:13:GLY:H    | 1:A:22:GLN:H    | 16       | 11.09         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB2  | 17       | 11.09         |
| (1,2851) | 1:A:11:TRP:HE1  | 1:A:19:CYS:HB3  | 17       | 11.09         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2  | 2        | 11.09         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3  | 2        | 11.09         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 8        | 11.09         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 12       | 11.09         |
| (1,2470) | 1:A:10:GLY:H    | 1:A:23:TYR:H    | 3        | 11.09         |
| (1,2357) | 1:A:9:PRO:HG2   | 1:A:35:HIS:HB2  | 1        | 11.09         |
| (1,2216) | 1:A:9:PRO:HB2   | 1:A:23:TYR:H    | 12       | 11.09         |
| (1,1977) | 1:A:7:CYS:HA    | 1:A:32:TYR:H    | 16       | 11.09         |
| (1,1825) | 1:A:6:GLN:HE21  | 1:A:22:GLN:H    | 9        | 11.09         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB2  | 19       | 11.09         |
| (1,1819) | 1:A:6:GLN:HE21  | 1:A:19:CYS:HB3  | 19       | 11.09         |
| (1,1637) | 1:A:6:GLN:HB3   | 1:A:18:LEU:H    | 4        | 11.09         |
| (1,1584) | 1:A:6:GLN:HA    | 1:A:35:HIS:H    | 20       | 11.09         |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2  | 3        | 11.09         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 18       | 11.09         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 18       | 11.09         |
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H    | 17       | 11.09         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB2  | 3        | 11.09         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB3  | 3        | 11.09         |
| (1,1252) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HA    | 9        | 11.09         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1068) | 1:A:4:ASN:H     | 1:A:18:LEU:H    | 2        | 11.09         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H    | 1        | 11.09         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 11       | 11.08         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 14       | 11.08         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 14       | 11.08         |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H    | 11       | 11.08         |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H    | 11       | 11.08         |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H    | 15       | 11.08         |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H    | 15       | 11.08         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 1        | 11.08         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 11       | 11.08         |
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H    | 15       | 11.08         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 16       | 11.08         |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1  | 13       | 11.08         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 3        | 11.08         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 6        | 11.08         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2  | 8        | 11.08         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 2        | 11.08         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 2        | 11.08         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 4        | 11.08         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 4        | 11.08         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 5        | 11.08         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 5        | 11.08         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 5        | 11.08         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 19       | 11.08         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 19       | 11.08         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 19       | 11.08         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 15       | 11.08         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 5        | 11.08         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 5        | 11.08         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 18       | 11.08         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 19       | 11.08         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 3        | 11.08         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 3        | 11.08         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1  | 4        | 11.08         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2  | 4        | 11.08         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H    | 20       | 11.08         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H    | 20       | 11.08         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 18       | 11.08         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 18       | 11.08         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H    | 17       | 11.08         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H    | 17       | 11.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA   | 12       | 11.08         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 17       | 11.08         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 8        | 11.08         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 8        | 11.08         |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H    | 2        | 11.08         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 18       | 11.08         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 18       | 11.08         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3  | 10       | 11.08         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB2  | 17       | 11.08         |
| (1,3104) | 1:A:13:GLY:H   | 1:A:22:GLN:HB3  | 17       | 11.08         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 13       | 11.08         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 16       | 11.08         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 16       | 11.08         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 10       | 11.08         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 10       | 11.08         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 2        | 11.08         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 5        | 11.08         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 10       | 11.08         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 9        | 11.08         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 18       | 11.08         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 20       | 11.08         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 14       | 11.08         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 6        | 11.08         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 6        | 11.08         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 20       | 11.08         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 20       | 11.08         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 13       | 11.08         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 7        | 11.08         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 7        | 11.08         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 7        | 11.08         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 8        | 11.08         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 8        | 11.08         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 14       | 11.08         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 14       | 11.08         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 3        | 11.08         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 3        | 11.08         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 12       | 11.08         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB2  | 7        | 11.08         |
| (1,1819) | 1:A:6:GLN:HE21 | 1:A:19:CYS:HB3  | 7        | 11.08         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 8        | 11.08         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 11       | 11.08         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 15       | 11.08         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 4        | 11.08         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 11       | 11.08         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 11       | 11.08         |
| (1,1337) | 1:A:4:ASN:HD22 | 1:A:15:ARG:H    | 14       | 11.08         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 19       | 11.08         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 19       | 11.08         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 19       | 11.08         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 12       | 11.08         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 10       | 11.08         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 13       | 11.08         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 4        | 11.07         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 4        | 11.07         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 7        | 11.07         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 7        | 11.07         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2  | 1        | 11.07         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 6        | 11.07         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 6        | 11.07         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3  | 11       | 11.07         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2  | 4        | 11.07         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3  | 4        | 11.07         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H    | 17       | 11.07         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H    | 17       | 11.07         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA   | 6        | 11.07         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA   | 6        | 11.07         |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 12       | 11.07         |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H    | 14       | 11.07         |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 17       | 11.07         |
| (1,4010) | 1:A:20:CYS:HB3 | 1:A:35:HIS:HE1  | 2        | 11.07         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE1  | 5        | 11.07         |
| (1,3683) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HE2  | 5        | 11.07         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 10       | 11.07         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 10       | 11.07         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 1        | 11.07         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H    | 18       | 11.07         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H    | 18       | 11.07         |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H    | 5        | 11.07         |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H    | 5        | 11.07         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H    | 5        | 11.07         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 17       | 11.07         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 17       | 11.07         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 6        | 11.07         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 18       | 11.07         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1 | 18       | 11.07         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2 | 18       | 11.07         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3 | 18       | 11.07         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3 | 11       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 16       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 16       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 18       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 18       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 19       | 11.07         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 19       | 11.07         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H   | 15       | 11.07         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG  | 9        | 11.07         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2 | 8        | 11.07         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3 | 8        | 11.07         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 4        | 11.07         |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 4        | 11.07         |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 4        | 11.07         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA  | 16       | 11.07         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA  | 19       | 11.07         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 13       | 11.07         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 14       | 11.07         |
| (1,2539) | 1:A:10:GLY:HA3 | 1:A:20:CYS:H   | 17       | 11.07         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 12       | 11.07         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 12       | 11.07         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 18       | 11.07         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 18       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 11       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 11       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 11       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 11       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 11       | 11.07         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 11       | 11.07         |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 18       | 11.07         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA  | 3        | 11.07         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE  | 20       | 11.07         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 16       | 11.07         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 16       | 11.07         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 9        | 11.07         |
| (1,2161) | 1:A:9:PRO:HA   | 1:A:22:GLN:HB3 | 17       | 11.07         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2 | 14       | 11.07         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3 | 14       | 11.07         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 4        | 11.07         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 6        | 11.07         |
| (1,1649) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HG2  | 11       | 11.07         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD2   | 17       | 11.07         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD3   | 17       | 11.07         |
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H     | 6        | 11.07         |
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H     | 10       | 11.07         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB2  | 14       | 11.07         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB3  | 14       | 11.07         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE21 | 9        | 11.07         |
| (1,1151) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HE22 | 9        | 11.07         |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H    | 14       | 11.07         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2  | 12       | 11.06         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 8        | 11.06         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 18       | 11.06         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 19       | 11.06         |
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 20       | 11.06         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1  | 13       | 11.06         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2  | 13       | 11.06         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 8        | 11.06         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 13       | 11.06         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 15       | 11.06         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1  | 19       | 11.06         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2  | 19       | 11.06         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3  | 19       | 11.06         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1  | 19       | 11.06         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2  | 19       | 11.06         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3  | 19       | 11.06         |
| (1,4631) | 1:A:26:CYS:H    | 1:A:35:HIS:HE1  | 5        | 11.06         |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2  | 11       | 11.06         |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2  | 17       | 11.06         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 5        | 11.06         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2  | 10       | 11.06         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3  | 10       | 11.06         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2  | 20       | 11.06         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3  | 20       | 11.06         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 3        | 11.06         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 3        | 11.06         |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 15       | 11.06         |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 15       | 11.06         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 20       | 11.06         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 6        | 11.06         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 2        | 11.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3  | 19       | 11.06         |
| (1,3680) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HA   | 2        | 11.06         |
| (1,3680) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HA   | 10       | 11.06         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 14       | 11.06         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 14       | 11.06         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD1  | 6        | 11.06         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD2  | 6        | 11.06         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 6        | 11.06         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 6        | 11.06         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG2  | 16       | 11.06         |
| (1,3479) | 1:A:16:GLY:H   | 1:A:30:PRO:HG3  | 16       | 11.06         |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG   | 4        | 11.06         |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG   | 4        | 11.06         |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA   | 8        | 11.06         |
| (1,3335) | 1:A:15:ARG:HB3 | 1:A:24:GLY:H    | 13       | 11.06         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 19       | 11.06         |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3  | 10       | 11.06         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 3        | 11.06         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 3        | 11.06         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 3        | 11.06         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 6        | 11.06         |
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 20       | 11.06         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 20       | 11.06         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 11       | 11.06         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 11       | 11.06         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 6        | 11.06         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 7        | 11.06         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 19       | 11.06         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 19       | 11.06         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 10       | 11.06         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 10       | 11.06         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 3        | 11.06         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 3        | 11.06         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 6        | 11.06         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 14       | 11.06         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 14       | 11.06         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 5        | 11.06         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 18       | 11.06         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 18       | 11.06         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 4        | 11.06         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 14       | 11.06         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 11       | 11.06         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 17       | 11.06         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 8        | 11.05         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 8        | 11.05         |
| (1,803)  | 1:A:3:PRO:HB2  | 1:A:23:TYR:HB2 | 2        | 11.05         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1 | 14       | 11.05         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2 | 14       | 11.05         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 6        | 11.05         |
| (1,697)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:HA3 | 7        | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 16       | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 16       | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 18       | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 18       | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG2 | 19       | 11.05         |
| (1,4613) | 1:A:26:CYS:H   | 1:A:30:PRO:HG3 | 19       | 11.05         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 5        | 11.05         |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H   | 1        | 11.05         |
| (1,4010) | 1:A:20:CYS:HB3 | 1:A:35:HIS:HE1 | 10       | 11.05         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2 | 11       | 11.05         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1 | 10       | 11.05         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2 | 10       | 11.05         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3 | 5        | 11.05         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 2        | 11.05         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H   | 10       | 11.05         |
| (1,3496) | 1:A:16:GLY:HA2 | 1:A:21:SER:HG  | 11       | 11.05         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA  | 16       | 11.05         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA  | 16       | 11.05         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA  | 14       | 11.05         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA  | 14       | 11.05         |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG  | 3        | 11.05         |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG  | 3        | 11.05         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2 | 5        | 11.05         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3 | 5        | 11.05         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3 | 5        | 11.05         |
| (1,3153) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HB3 | 17       | 11.05         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA  | 2        | 11.05         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA  | 10       | 11.05         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 6        | 11.05         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 6        | 11.05         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 14       | 11.05         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 14       | 11.05         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 1        | 11.05         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H   | 15       | 11.05         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2789) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HG   | 7        | 11.05         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 18       | 11.05         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 18       | 11.05         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 19       | 11.05         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 19       | 11.05         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 2        | 11.05         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 2        | 11.05         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 15       | 11.05         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD2  | 8        | 11.05         |
| (1,2450) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HD3  | 8        | 11.05         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD2  | 8        | 11.05         |
| (1,2450) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HD3  | 8        | 11.05         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG2  | 14       | 11.05         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG2  | 14       | 11.05         |
| (1,2448) | 1:A:9:PRO:HD2  | 1:A:31:LYS:HG3  | 14       | 11.05         |
| (1,2448) | 1:A:9:PRO:HD3  | 1:A:31:LYS:HG3  | 14       | 11.05         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD1  | 17       | 11.05         |
| (1,2411) | 1:A:9:PRO:HG3  | 1:A:32:TYR:HD2  | 17       | 11.05         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 14       | 11.05         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 6        | 11.05         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 5        | 11.05         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 5        | 11.05         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 12       | 11.05         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 11       | 11.05         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 9        | 11.05         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 14       | 11.05         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 8        | 11.05         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 8        | 11.05         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 9        | 11.05         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 2        | 11.05         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 2        | 11.05         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 11.05         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 16       | 11.05         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 8        | 11.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 20       | 11.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 20       | 11.05         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 20       | 11.05         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 2        | 11.05         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 13       | 11.05         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 15       | 11.05         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 2        | 11.04         |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 2        | 11.04         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,870)  | 1:A:3:PRO:HB3   | 1:A:27:GLY:H   | 8        | 11.04         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 13       | 11.04         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 20       | 11.04         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 19       | 11.04         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 19       | 11.04         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG2 | 2        | 11.04         |
| (1,4613) | 1:A:26:CYS:H    | 1:A:30:PRO:HG3 | 2        | 11.04         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA  | 9        | 11.04         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA  | 9        | 11.04         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2 | 3        | 11.04         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3 | 3        | 11.04         |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2 | 4        | 11.04         |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 15       | 11.04         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 5        | 11.04         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 5        | 11.04         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 5        | 11.04         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1 | 10       | 11.04         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2 | 10       | 11.04         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA  | 5        | 11.04         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 10       | 11.04         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1 | 3        | 11.04         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2 | 3        | 11.04         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1 | 5        | 11.04         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2 | 5        | 11.04         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG  | 20       | 11.04         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1 | 2        | 11.04         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2 | 2        | 11.04         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD1 | 17       | 11.04         |
| (1,3506) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HD2 | 17       | 11.04         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3 | 17       | 11.04         |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H   | 3        | 11.04         |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H   | 4        | 11.04         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3 | 19       | 11.04         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2 | 13       | 11.04         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2 | 13       | 11.04         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3 | 13       | 11.04         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3 | 13       | 11.04         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 18       | 11.04         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 19       | 11.04         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2 | 9        | 11.04         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3 | 9        | 11.04         |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA  | 9        | 11.04         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 12       | 11.04         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 17       | 11.04         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 4        | 11.04         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 11       | 11.04         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 11       | 11.04         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 11       | 11.04         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 5        | 11.04         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 10       | 11.04         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 14       | 11.04         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 8        | 11.04         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 10       | 11.04         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 10       | 11.04         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 7        | 11.04         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 2        | 11.04         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 2        | 11.04         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 2        | 11.04         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 4        | 11.04         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 4        | 11.04         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 1        | 11.04         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 16       | 11.04         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 2        | 11.04         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 13       | 11.04         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 13       | 11.04         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 3        | 11.04         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 18       | 11.04         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 20       | 11.04         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 2        | 11.04         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 7        | 11.04         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 7        | 11.04         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 18       | 11.04         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 3        | 11.04         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 19       | 11.04         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 5        | 11.03         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 5        | 11.03         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE1  | 15       | 11.03         |
| (1,926)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HE2  | 15       | 11.03         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE1  | 15       | 11.03         |
| (1,926)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HE2  | 15       | 11.03         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 9        | 11.03         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 9        | 11.03         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 3        | 11.03         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 9        | 11.03         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,758)  | 1:A:3:PRO:HA    | 1:A:20:CYS:H    | 16       | 11.03         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 5        | 11.03         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 5        | 11.03         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 18       | 11.03         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 18       | 11.03         |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2  | 7        | 11.03         |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 20       | 11.03         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 5        | 11.03         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 20       | 11.03         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 6        | 11.03         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 11       | 11.03         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 19       | 11.03         |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 12       | 11.03         |
| (1,3726) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HE1  | 10       | 11.03         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 7        | 11.03         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 16       | 11.03         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 18       | 11.03         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 19       | 11.03         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 4        | 11.03         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 4        | 11.03         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 12       | 11.03         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 12       | 11.03         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 3        | 11.03         |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 14       | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 2        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 2        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 3        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 3        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 4        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 4        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 5        | 11.03         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 5        | 11.03         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB2  | 9        | 11.03         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB3  | 9        | 11.03         |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2  | 2        | 11.03         |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3  | 2        | 11.03         |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2  | 17       | 11.03         |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3  | 17       | 11.03         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2  | 3        | 11.03         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3  | 3        | 11.03         |
| (1,2541) | 1:A:10:GLY:HA3  | 1:A:21:SER:H    | 2        | 11.03         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG2  | 1        | 11.03         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 1        | 11.03         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 2        | 11.03         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 5        | 11.03         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 12       | 11.03         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 20       | 11.03         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 20       | 11.03         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 17       | 11.03         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 17       | 11.03         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 13       | 11.03         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 13       | 11.03         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 5        | 11.03         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 9        | 11.03         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 9        | 11.03         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 19       | 11.03         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 19       | 11.03         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 19       | 11.03         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 16       | 11.03         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA   | 19       | 11.03         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 13       | 11.03         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 19       | 11.03         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 19       | 11.03         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 16       | 11.03         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 16       | 11.03         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2  | 20       | 11.03         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3  | 20       | 11.03         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 3        | 11.03         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 9        | 11.03         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 2        | 11.03         |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 2        | 11.03         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 5        | 11.03         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 18       | 11.02         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 20       | 11.02         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H    | 19       | 11.02         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 4        | 11.02         |
| (1,758)  | 1:A:3:PRO:HA   | 1:A:20:CYS:H    | 7        | 11.02         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 17       | 11.02         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 17       | 11.02         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 17       | 11.02         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 17       | 11.02         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 17       | 11.02         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 17       | 11.02         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 9        | 11.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 18       | 11.02         |
| (1,4600) | 1:A:25:TYR:HE1 | 1:A:34:ALA:H    | 13       | 11.02         |
| (1,4600) | 1:A:25:TYR:HE2 | 1:A:34:ALA:H    | 13       | 11.02         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2  | 5        | 11.02         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3  | 5        | 11.02         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2  | 6        | 11.02         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3  | 6        | 11.02         |
| (1,4402) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HD3  | 15       | 11.02         |
| (1,4402) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HD3  | 15       | 11.02         |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 3        | 11.02         |
| (1,4187) | 1:A:22:GLN:HB2 | 1:A:29:GLY:H    | 10       | 11.02         |
| (1,3980) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HD2  | 14       | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 1        | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 1        | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 11       | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 11       | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 13       | 11.02         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 13       | 11.02         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 5        | 11.02         |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 5        | 11.02         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 18       | 11.02         |
| (1,3480) | 1:A:16:GLY:H   | 1:A:30:PRO:HD3  | 19       | 11.02         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H    | 1        | 11.02         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H    | 1        | 11.02         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 9        | 11.02         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 9        | 11.02         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 8        | 11.02         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 8        | 11.02         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2  | 10       | 11.02         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3  | 10       | 11.02         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 2        | 11.02         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 6        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 1        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 1        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 2        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 2        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 3        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 3        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 4        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 4        | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 13       | 11.02         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 13       | 11.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 4        | 11.02         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 4        | 11.02         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 5        | 11.02         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 7        | 11.02         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 7        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 1        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 1        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 1        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 1        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 1        | 11.02         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 1        | 11.02         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 15       | 11.02         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 8        | 11.02         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 8        | 11.02         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 19       | 11.02         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 19       | 11.02         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 16       | 11.02         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 18       | 11.02         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 19       | 11.02         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 7        | 11.02         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 7        | 11.02         |
| (1,1977) | 1:A:7:CYS:HA   | 1:A:32:TYR:H    | 17       | 11.02         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 20       | 11.02         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 4        | 11.02         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 9        | 11.02         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 5        | 11.02         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2  | 10       | 11.02         |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 11       | 11.02         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 8        | 11.02         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 8        | 11.02         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 18       | 11.02         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 18       | 11.02         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2  | 15       | 11.02         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3  | 15       | 11.02         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 11       | 11.02         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 10       | 11.02         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 1        | 11.01         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 1        | 11.01         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H    | 4        | 11.01         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H    | 4        | 11.01         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2  | 13       | 11.01         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2  | 15       | 11.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 6        | 11.01         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H    | 5        | 11.01         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H    | 5        | 11.01         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3  | 5        | 11.01         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 11       | 11.01         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 19       | 11.01         |
| (1,4628) | 1:A:26:CYS:H   | 1:A:34:ALA:HA   | 20       | 11.01         |
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3  | 11       | 11.01         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 14       | 11.01         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 14       | 11.01         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 17       | 11.01         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 17       | 11.01         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 8        | 11.01         |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG   | 2        | 11.01         |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG   | 2        | 11.01         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 14       | 11.01         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 14       | 11.01         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 14       | 11.01         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 20       | 11.01         |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 20       | 11.01         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 9        | 11.01         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 9        | 11.01         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 13       | 11.01         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 8        | 11.01         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 7        | 11.01         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 7        | 11.01         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 13       | 11.01         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 13       | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 5        | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 5        | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 7        | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 7        | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2  | 20       | 11.01         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3  | 20       | 11.01         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 9        | 11.01         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 1        | 11.01         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 4        | 11.01         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 6        | 11.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 8        | 11.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 8        | 11.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2  | 9        | 11.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3  | 9        | 11.01         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 20       | 11.01         |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 20       | 11.01         |
| (1,2262) | 1:A:9:PRO:HB3  | 1:A:21:SER:HG  | 17       | 11.01         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 11       | 11.01         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 20       | 11.01         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 12       | 11.01         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 12       | 11.01         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 13       | 11.01         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 8        | 11.01         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 11       | 11.01         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 8        | 11.01         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 13       | 11.01         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 15       | 11.01         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H   | 3        | 11.01         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 16       | 11.01         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 12       | 11.01         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 12       | 11.01         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2 | 4        | 11.01         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3 | 4        | 11.01         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2 | 9        | 11.01         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3 | 9        | 11.01         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2 | 11       | 11.01         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2 | 13       | 11.01         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 8        | 11.01         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 8        | 11.01         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 1        | 11.01         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 12       | 11.01         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H   | 12       | 11.01         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 7        | 11.0          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 7        | 11.0          |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H   | 3        | 11.0          |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H   | 3        | 11.0          |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H   | 19       | 11.0          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 12       | 11.0          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 12       | 11.0          |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 8        | 11.0          |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H   | 18       | 11.0          |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2 | 10       | 11.0          |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3 | 10       | 11.0          |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H   | 3        | 11.0          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1 | 15       | 11.0          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 15       | 11.0          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 15       | 11.0          |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 1        | 11.0          |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 8        | 11.0          |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 4        | 11.0          |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 4        | 11.0          |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 4        | 11.0          |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 4        | 11.0          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 3        | 11.0          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 3        | 11.0          |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 7        | 11.0          |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 7        | 11.0          |
| (1,4448) | 1:A:24:GLY:H    | 1:A:29:GLY:HA2  | 12       | 11.0          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 9        | 11.0          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 9        | 11.0          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 13       | 11.0          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 13       | 11.0          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 2        | 11.0          |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 20       | 11.0          |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 20       | 11.0          |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 20       | 11.0          |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 17       | 11.0          |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 17       | 11.0          |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 17       | 11.0          |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 20       | 11.0          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 19       | 11.0          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 19       | 11.0          |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 12       | 11.0          |
| (1,3410) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HB3  | 9        | 11.0          |
| (1,3410) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HB3  | 9        | 11.0          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 5        | 11.0          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 5        | 11.0          |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H    | 13       | 11.0          |
| (1,3133) | 1:A:13:GLY:H    | 1:A:32:TYR:HA   | 20       | 11.0          |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 1        | 11.0          |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 3        | 11.0          |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 15       | 11.0          |
| (1,2974) | 1:A:11:TRP:HH2  | 1:A:23:TYR:HB2  | 14       | 11.0          |
| (1,2859) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HG2  | 6        | 11.0          |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB2  | 6        | 11.0          |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB3  | 6        | 11.0          |
| (1,2590) | 1:A:11:TRP:H    | 1:A:19:CYS:HB3  | 14       | 11.0          |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 11       | 11.0          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H   | 3        | 11.0          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB2 | 16       | 11.0          |
| (1,2529) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HB3 | 16       | 11.0          |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2 | 6        | 11.0          |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 6        | 11.0          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2 | 1        | 11.0          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3 | 1        | 11.0          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 9        | 11.0          |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2 | 12       | 11.0          |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3 | 12       | 11.0          |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2 | 13       | 11.0          |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3 | 13       | 11.0          |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 8        | 11.0          |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 18       | 11.0          |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 19       | 11.0          |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 10       | 11.0          |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 2        | 11.0          |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 10       | 11.0          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1 | 17       | 11.0          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2 | 17       | 11.0          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 13       | 11.0          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 13       | 11.0          |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H    | 19       | 11.0          |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 13       | 11.0          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 7        | 11.0          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 4        | 11.0          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 4        | 11.0          |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 4        | 11.0          |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H   | 13       | 11.0          |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE  | 13       | 11.0          |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 15       | 11.0          |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 15       | 10.99         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 15       | 10.99         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H   | 16       | 10.99         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 14       | 10.99         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 14       | 10.99         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1 | 8        | 10.99         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2 | 8        | 10.99         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3 | 8        | 10.99         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1 | 8        | 10.99         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2 | 8        | 10.99         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3 | 8        | 10.99         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 17       | 10.99         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 3        | 10.99         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 3        | 10.99         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 1        | 10.99         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 1        | 10.99         |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1  | 18       | 10.99         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 11       | 10.99         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 11       | 10.99         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 20       | 10.99         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 4        | 10.99         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 4        | 10.99         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 4        | 10.99         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 4        | 10.99         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 4        | 10.99         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 4        | 10.99         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 16       | 10.99         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 16       | 10.99         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 12       | 10.99         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 17       | 10.99         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 7        | 10.99         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 3        | 10.99         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 12       | 10.99         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 3        | 10.99         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 4        | 10.99         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 15       | 10.99         |
| (1,3401) | 1:A:15:ARG:HD2  | 1:A:22:GLN:HA   | 1        | 10.99         |
| (1,3401) | 1:A:15:ARG:HD3  | 1:A:22:GLN:HA   | 1        | 10.99         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H    | 10       | 10.99         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H    | 10       | 10.99         |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA   | 5        | 10.99         |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA   | 5        | 10.99         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 11       | 10.99         |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3  | 10       | 10.99         |
| (1,3319) | 1:A:15:ARG:HB2  | 1:A:35:HIS:H    | 1        | 10.99         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 1        | 10.99         |
| (1,2962) | 1:A:11:TRP:HH2  | 1:A:13:GLY:HA3  | 13       | 10.99         |
| (1,2857) | 1:A:11:TRP:HE1  | 1:A:22:GLN:H    | 4        | 10.99         |
| (1,2838) | 1:A:11:TRP:HE1  | 1:A:15:ARG:H    | 13       | 10.99         |
| (1,2590) | 1:A:11:TRP:H    | 1:A:19:CYS:HB3  | 20       | 10.99         |
| (1,2554) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HA   | 13       | 10.99         |
| (1,2430) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HG2  | 2        | 10.99         |
| (1,2430) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HG3  | 2        | 10.99         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 2        | 10.99         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 2        | 10.99         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2 | 2        | 10.99         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2 | 4        | 10.99         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 3        | 10.99         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H   | 1        | 10.99         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 8        | 10.99         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 9        | 10.99         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 15       | 10.99         |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 19       | 10.99         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2 | 9        | 10.99         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3 | 9        | 10.99         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 1        | 10.99         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 20       | 10.99         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H   | 6        | 10.99         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H   | 20       | 10.99         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 7        | 10.99         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 19       | 10.99         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 3        | 10.99         |
| (1,1543) | 1:A:6:GLN:H    | 1:A:33:CYS:HA  | 7        | 10.99         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 7        | 10.99         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 7        | 10.99         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H    | 18       | 10.99         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2 | 18       | 10.99         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3 | 18       | 10.99         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H   | 9        | 10.99         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 19       | 10.98         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 19       | 10.98         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H   | 8        | 10.98         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H   | 8        | 10.98         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 9        | 10.98         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H   | 7        | 10.98         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2 | 7        | 10.98         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2 | 7        | 10.98         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3 | 7        | 10.98         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3 | 7        | 10.98         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2 | 5        | 10.98         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3 | 5        | 10.98         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2 | 18       | 10.98         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3 | 18       | 10.98         |
| (1,3576) | 1:A:17:GLY:H   | 1:A:31:LYS:HA  | 16       | 10.98         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2 | 9        | 10.98         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3526) | 1:A:16:GLY:HA3 | 1:A:21:SER:HG   | 9        | 10.98         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 16       | 10.98         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 16       | 10.98         |
| (1,3265) | 1:A:15:ARG:H   | 1:A:23:TYR:HB3  | 15       | 10.98         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 13       | 10.98         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 13       | 10.98         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG2  | 20       | 10.98         |
| (1,3143) | 1:A:13:GLY:HA2 | 1:A:31:LYS:HG3  | 20       | 10.98         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 18       | 10.98         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 11       | 10.98         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 11       | 10.98         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2  | 10       | 10.98         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 10       | 10.98         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 5        | 10.98         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 5        | 10.98         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE1  | 17       | 10.98         |
| (1,2657) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HE2  | 17       | 10.98         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 7        | 10.98         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 18       | 10.98         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 19       | 10.98         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 6        | 10.98         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 6        | 10.98         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 5        | 10.98         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 4        | 10.98         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 1        | 10.98         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 1        | 10.98         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 12       | 10.98         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 6        | 10.98         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 6        | 10.98         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 10       | 10.98         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 10       | 10.98         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 18       | 10.98         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 18       | 10.98         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 14       | 10.98         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 6        | 10.98         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 6        | 10.98         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 18       | 10.98         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 5        | 10.98         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 13       | 10.98         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 12       | 10.98         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 16       | 10.98         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 16       | 10.98         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H     | 8        | 10.98         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB2  | 19       | 10.98         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB3  | 19       | 10.98         |
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2  | 10       | 10.98         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA   | 14       | 10.98         |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H    | 11       | 10.98         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H    | 4        | 10.98         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H    | 8        | 10.98         |
| (1,927)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:H    | 17       | 10.97         |
| (1,927)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:H    | 17       | 10.97         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA   | 20       | 10.97         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA   | 20       | 10.97         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 6        | 10.97         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 6        | 10.97         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 15       | 10.97         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 16       | 10.97         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB2  | 17       | 10.97         |
| (1,652)  | 1:A:2:GLY:H     | 1:A:28:SER:HB3  | 17       | 10.97         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 10       | 10.97         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 10       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 18       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 18       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 19       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 19       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 20       | 10.97         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 20       | 10.97         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 11       | 10.97         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 11       | 10.97         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 11       | 10.97         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 11       | 10.97         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 20       | 10.97         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 4        | 10.97         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 1        | 10.97         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 1        | 10.97         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 7        | 10.97         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 7        | 10.97         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H    | 12       | 10.97         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 4        | 10.97         |
| (1,3526) | 1:A:16:GLY:HA3  | 1:A:21:SER:HG   | 8        | 10.97         |
| (1,3505) | 1:A:16:GLY:HA2  | 1:A:25:TYR:HB3  | 14       | 10.97         |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H    | 5        | 10.97         |
| (1,3497) | 1:A:16:GLY:HA2  | 1:A:22:GLN:H    | 6        | 10.97         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 18       | 10.97         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 13       | 10.97         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 16       | 10.97         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 15       | 10.97         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 15       | 10.97         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 16       | 10.97         |
| (1,3133) | 1:A:13:GLY:H   | 1:A:32:TYR:HA   | 19       | 10.97         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 11       | 10.97         |
| (1,2859) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HG2  | 4        | 10.97         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 1        | 10.97         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 14       | 10.97         |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2  | 17       | 10.97         |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3  | 17       | 10.97         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 8        | 10.97         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3  | 16       | 10.97         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 3        | 10.97         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 13       | 10.97         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 13       | 10.97         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 7        | 10.97         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 16       | 10.97         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 3        | 10.97         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 3        | 10.97         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 3        | 10.97         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 3        | 10.97         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 3        | 10.97         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 3        | 10.97         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 5        | 10.97         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 5        | 10.97         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 15       | 10.97         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 15       | 10.97         |
| (1,1817) | 1:A:6:GLN:HE21 | 1:A:19:CYS:H    | 7        | 10.97         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 8        | 10.97         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE2  | 18       | 10.97         |
| (1,1677) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HE3  | 18       | 10.97         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 5        | 10.97         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 5        | 10.97         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 6        | 10.97         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 17       | 10.97         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 17       | 10.97         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 11       | 10.97         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 11       | 10.97         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 17       | 10.97         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2  | 16       | 10.97         |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE   | 11       | 10.97         |
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA    | 14       | 10.97         |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE   | 7        | 10.97         |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H    | 9        | 10.97         |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG   | 8        | 10.97         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 5        | 10.96         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 5        | 10.96         |
| (1,924)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:H    | 10       | 10.96         |
| (1,924)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:H    | 10       | 10.96         |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 17       | 10.96         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 8        | 10.96         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 12       | 10.96         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 2        | 10.96         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 5        | 10.96         |
| (1,697)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:HA3  | 10       | 10.96         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 8        | 10.96         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 8        | 10.96         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 8        | 10.96         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 8        | 10.96         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H    | 2        | 10.96         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H    | 2        | 10.96         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 12       | 10.96         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 12       | 10.96         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 17       | 10.96         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 17       | 10.96         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 19       | 10.96         |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 12       | 10.96         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 18       | 10.96         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 13       | 10.96         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 13       | 10.96         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 13       | 10.96         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 7        | 10.96         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 18       | 10.96         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 18       | 10.96         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 8        | 10.96         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA   | 9        | 10.96         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 12       | 10.96         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 12       | 10.96         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1  | 3        | 10.96         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2  | 3        | 10.96         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 3        | 10.96         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 2        | 10.96         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 20       | 10.96         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 20       | 10.96         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 1        | 10.96         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 1        | 10.96         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 1        | 10.96         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 13       | 10.96         |
| (1,2838) | 1:A:11:TRP:HE1 | 1:A:15:ARG:H    | 11       | 10.96         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 14       | 10.96         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 10       | 10.96         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 15       | 10.96         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 15       | 10.96         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 13       | 10.96         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 15       | 10.96         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 13       | 10.96         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 8        | 10.96         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 8        | 10.96         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 5        | 10.96         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 6        | 10.96         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2  | 2        | 10.96         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3  | 2        | 10.96         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 16       | 10.96         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 18       | 10.96         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 2        | 10.96         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 5        | 10.96         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 10       | 10.96         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 19       | 10.96         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 15       | 10.96         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 12       | 10.96         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 5        | 10.96         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 12       | 10.96         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 16       | 10.96         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 9        | 10.96         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 9        | 10.96         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 9        | 10.96         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 4        | 10.96         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 20       | 10.96         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 20       | 10.96         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD1  | 2        | 10.95         |
| (1,990)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HD2  | 2        | 10.95         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 6        | 10.95         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 6        | 10.95         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 13       | 10.95         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 13       | 10.95         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 16       | 10.95         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 16       | 10.95         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 9        | 10.95         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 9        | 10.95         |
| (1,870)  | 1:A:3:PRO:HB3  | 1:A:27:GLY:H    | 7        | 10.95         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 3        | 10.95         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 3        | 10.95         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2  | 20       | 10.95         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H    | 11       | 10.95         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 1        | 10.95         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 1        | 10.95         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 2        | 10.95         |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2  | 14       | 10.95         |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3  | 12       | 10.95         |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3  | 12       | 10.95         |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA   | 13       | 10.95         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 16       | 10.95         |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 16       | 10.95         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD1  | 6        | 10.95         |
| (1,3603) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HD2  | 6        | 10.95         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 13       | 10.95         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 6        | 10.95         |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 5        | 10.95         |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 5        | 10.95         |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 5        | 10.95         |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 5        | 10.95         |
| (1,3313) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HD3  | 1        | 10.95         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 16       | 10.95         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 16       | 10.95         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 11       | 10.95         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 11       | 10.95         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1  | 10       | 10.95         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2  | 10       | 10.95         |
| (1,2974) | 1:A:11:TRP:HH2 | 1:A:23:TYR:HB2  | 1        | 10.95         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 12       | 10.95         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 9        | 10.95         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 4        | 10.95         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 4        | 10.95         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 4        | 10.95         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 4        | 10.95         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 11       | 10.95         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 13       | 10.95         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 13       | 10.95         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 7        | 10.95         |
| (1,2160) | 1:A:9:PRO:HA   | 1:A:22:GLN:H   | 17       | 10.95         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2 | 14       | 10.95         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2 | 14       | 10.95         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 5        | 10.95         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 5        | 10.95         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB2 | 6        | 10.95         |
| (1,1894) | 1:A:6:GLN:HE22 | 1:A:22:GLN:HB3 | 6        | 10.95         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2 | 3        | 10.95         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2 | 1        | 10.95         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3 | 1        | 10.95         |
| (1,1827) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HG2 | 3        | 10.95         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 15       | 10.95         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 7        | 10.95         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 19       | 10.95         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA  | 18       | 10.95         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 16       | 10.95         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 8        | 10.95         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2 | 6        | 10.95         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3 | 6        | 10.95         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H    | 7        | 10.95         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 6        | 10.95         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 8        | 10.95         |
| (1,924)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:H   | 2        | 10.94         |
| (1,924)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:H   | 2        | 10.94         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 13       | 10.94         |
| (1,592)  | 1:A:1:SER:HB2  | 1:A:35:HIS:H   | 17       | 10.94         |
| (1,592)  | 1:A:1:SER:HB3  | 1:A:35:HIS:H   | 17       | 10.94         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2 | 6        | 10.94         |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 11       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2 | 16       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3 | 16       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2 | 18       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3 | 18       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2 | 19       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3 | 19       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2 | 20       | 10.94         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3 | 20       | 10.94         |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1 | 12       | 10.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H    | 16       | 10.94         |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA   | 4        | 10.94         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 18       | 10.94         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 18       | 10.94         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 8        | 10.94         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 9        | 10.94         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2  | 9        | 10.94         |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3  | 9        | 10.94         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG2  | 7        | 10.94         |
| (1,3577) | 1:A:17:GLY:H   | 1:A:31:LYS:HG3  | 7        | 10.94         |
| (1,3515) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB3  | 5        | 10.94         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 4        | 10.94         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 4        | 10.94         |
| (1,3513) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HB2  | 10       | 10.94         |
| (1,3505) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HB3  | 6        | 10.94         |
| (1,3415) | 1:A:15:ARG:HD2 | 1:A:32:TYR:H    | 14       | 10.94         |
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H    | 14       | 10.94         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 6        | 10.94         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 11       | 10.94         |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 11       | 10.94         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 5        | 10.94         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 1        | 10.94         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 1        | 10.94         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 11       | 10.94         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 3        | 10.94         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 7        | 10.94         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 16       | 10.94         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 18       | 10.94         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 19       | 10.94         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H    | 1        | 10.94         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 2        | 10.94         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 2        | 10.94         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 16       | 10.94         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 18       | 10.94         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 19       | 10.94         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 20       | 10.94         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 20       | 10.94         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 4        | 10.94         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 16       | 10.94         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 8        | 10.94         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 8        | 10.94         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 18       | 10.94         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 16       | 10.94         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 12       | 10.94         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 12       | 10.94         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 12       | 10.94         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 10       | 10.94         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 10       | 10.94         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 14       | 10.94         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 20       | 10.94         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 3        | 10.94         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 16       | 10.94         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 11       | 10.93         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 6        | 10.93         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 6        | 10.93         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 14       | 10.93         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 14       | 10.93         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG2  | 9        | 10.93         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG2  | 9        | 10.93         |
| (1,583)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HG3  | 9        | 10.93         |
| (1,583)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HG3  | 9        | 10.93         |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 20       | 10.93         |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 20       | 10.93         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 17       | 10.93         |
| (1,4584) | 1:A:25:TYR:HE1 | 1:A:29:GLY:H    | 16       | 10.93         |
| (1,4584) | 1:A:25:TYR:HE2 | 1:A:29:GLY:H    | 16       | 10.93         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA   | 19       | 10.93         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA   | 19       | 10.93         |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H    | 20       | 10.93         |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA   | 10       | 10.93         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 18       | 10.93         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 19       | 10.93         |
| (1,3601) | 1:A:17:GLY:HA2 | 1:A:25:TYR:H    | 20       | 10.93         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE2  | 18       | 10.93         |
| (1,3578) | 1:A:17:GLY:H   | 1:A:31:LYS:HE3  | 18       | 10.93         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 19       | 10.93         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG   | 2        | 10.93         |
| (1,3497) | 1:A:16:GLY:HA2 | 1:A:22:GLN:H    | 17       | 10.93         |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H    | 11       | 10.93         |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H    | 11       | 10.93         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 12       | 10.93         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 12       | 10.93         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 11       | 10.93         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 6        | 10.93         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 18       | 10.93         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 18       | 10.93         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 15       | 10.93         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2  | 7        | 10.93         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3  | 7        | 10.93         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 13       | 10.93         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 18       | 10.93         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 19       | 10.93         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 3        | 10.93         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 3        | 10.93         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 13       | 10.93         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 13       | 10.93         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 1        | 10.93         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 1        | 10.93         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 10       | 10.93         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 13       | 10.93         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 16       | 10.93         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 16       | 10.93         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 16       | 10.93         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 7        | 10.93         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 7        | 10.93         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 11       | 10.93         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 11       | 10.93         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 18       | 10.93         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 14       | 10.93         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 12       | 10.93         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 18       | 10.93         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 3        | 10.93         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 19       | 10.93         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 15       | 10.93         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 18       | 10.93         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 18       | 10.93         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 8        | 10.92         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 18       | 10.92         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 18       | 10.92         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 5        | 10.92         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3  | 13       | 10.92         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA   | 18       | 10.92         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA   | 18       | 10.92         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA   | 20       | 10.92         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA   | 20       | 10.92         |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2  | 14       | 10.92         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 14       | 10.92         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 9        | 10.92         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 9        | 10.92         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 7        | 10.92         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 7        | 10.92         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 4        | 10.92         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 2        | 10.92         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 2        | 10.92         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 2        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 8        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 8        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 8        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 8        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 8        | 10.92         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 8        | 10.92         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE2  | 15       | 10.92         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE3  | 15       | 10.92         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 18       | 10.92         |
| (1,3566) | 1:A:17:GLY:H    | 1:A:25:TYR:HB2  | 20       | 10.92         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 10       | 10.92         |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG   | 18       | 10.92         |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG   | 18       | 10.92         |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA   | 8        | 10.92         |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA   | 8        | 10.92         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 14       | 10.92         |
| (1,3300) | 1:A:15:ARG:HB2  | 1:A:24:GLY:H    | 15       | 10.92         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 14       | 10.92         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 3        | 10.92         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 3        | 10.92         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1  | 19       | 10.92         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2  | 19       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 16       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 16       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 18       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 18       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 19       | 10.92         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 19       | 10.92         |
| (1,2791) | 1:A:11:TRP:HE3  | 1:A:19:CYS:HA   | 8        | 10.92         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE21 | 9        | 10.92         |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE22 | 9        | 10.92         |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG   | 8        | 10.92         |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG   | 12       | 10.92         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG  | 16       | 10.92         |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG  | 20       | 10.92         |
| (1,2264) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HB3 | 17       | 10.92         |
| (1,2263) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HA  | 7        | 10.92         |
| (1,2159) | 1:A:9:PRO:HA    | 1:A:21:SER:HG  | 1        | 10.92         |
| (1,2159) | 1:A:9:PRO:HA    | 1:A:21:SER:HG  | 11       | 10.92         |
| (1,1933) | 1:A:7:CYS:H     | 1:A:16:GLY:H   | 10       | 10.92         |
| (1,1826) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HA  | 13       | 10.92         |
| (1,1826) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HA  | 16       | 10.92         |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA  | 7        | 10.92         |
| (1,1709) | 1:A:6:GLN:HG2   | 1:A:18:LEU:HA  | 20       | 10.92         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA2 | 5        | 10.92         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA3 | 5        | 10.92         |
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H    | 13       | 10.92         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB2 | 15       | 10.92         |
| (1,1305) | 1:A:4:ASN:HD21  | 1:A:32:TYR:HB3 | 15       | 10.92         |
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2 | 2        | 10.92         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA  | 3        | 10.92         |
| (1,1186) | 1:A:4:ASN:HB3   | 1:A:10:GLY:H   | 1        | 10.92         |
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA   | 18       | 10.92         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H   | 7        | 10.92         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H   | 19       | 10.92         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2 | 18       | 10.91         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 14       | 10.91         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H   | 2        | 10.91         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H   | 9        | 10.91         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB2 | 6        | 10.91         |
| (1,634)  | 1:A:2:GLY:H     | 1:A:22:GLN:HB3 | 6        | 10.91         |
| (1,4674) | 1:A:26:CYS:HB3  | 1:A:35:HIS:HE1 | 5        | 10.91         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 17       | 10.91         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 17       | 10.91         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2 | 11       | 10.91         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3 | 11       | 10.91         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 12       | 10.91         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 12       | 10.91         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 12       | 10.91         |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3 | 20       | 10.91         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 7        | 10.91         |
| (1,3601) | 1:A:17:GLY:HA2  | 1:A:25:TYR:H   | 16       | 10.91         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 16       | 10.91         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 16       | 10.91         |
| (1,3516) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HD2 | 17       | 10.91         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3 | 17       | 10.91         |
| (1,3415) | 1:A:15:ARG:HD2 | 1:A:32:TYR:H   | 5        | 10.91         |
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H   | 5        | 10.91         |
| (1,3412) | 1:A:15:ARG:HD2 | 1:A:31:LYS:H   | 9        | 10.91         |
| (1,3412) | 1:A:15:ARG:HD3 | 1:A:31:LYS:H   | 9        | 10.91         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 20       | 10.91         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 20       | 10.91         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H   | 15       | 10.91         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 16       | 10.91         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 16       | 10.91         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 20       | 10.91         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 20       | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 8        | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 8        | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 12       | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 12       | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 15       | 10.91         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 15       | 10.91         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3 | 14       | 10.91         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 9        | 10.91         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 9        | 10.91         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 20       | 10.91         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 20       | 10.91         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 6        | 10.91         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 6        | 10.91         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 12       | 10.91         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 3        | 10.91         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG  | 9        | 10.91         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG  | 15       | 10.91         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 3        | 10.91         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 3        | 10.91         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 3        | 10.91         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 3        | 10.91         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 20       | 10.91         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 20       | 10.91         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 12       | 10.91         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 12       | 10.91         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 12       | 10.91         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 2        | 10.91         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2 | 18       | 10.91         |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3 | 18       | 10.91         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 18       | 10.91         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 19       | 10.91         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H    | 20       | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 5        | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 5        | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 8        | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 8        | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 10       | 10.91         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 10       | 10.91         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 7        | 10.91         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 19       | 10.91         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 13       | 10.91         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 14       | 10.91         |
| (1,1709) | 1:A:6:GLN:HG2  | 1:A:18:LEU:HA   | 9        | 10.91         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 12       | 10.91         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 8        | 10.91         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 4        | 10.91         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 11       | 10.91         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE21 | 3        | 10.91         |
| (1,1151) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HE22 | 3        | 10.91         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H    | 19       | 10.91         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 18       | 10.91         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 7        | 10.9          |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 7        | 10.9          |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 4        | 10.9          |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 4        | 10.9          |
| (1,567)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG3  | 12       | 10.9          |
| (1,567)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG3  | 12       | 10.9          |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2  | 6        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 7        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2  | 7        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3  | 7        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1  | 7        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2  | 7        | 10.9          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3  | 7        | 10.9          |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2  | 1        | 10.9          |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3  | 1        | 10.9          |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG2  | 9        | 10.9          |
| (1,4450) | 1:A:24:GLY:H   | 1:A:30:PRO:HG3  | 9        | 10.9          |
| (1,4256) | 1:A:22:GLN:HG3 | 1:A:28:SER:H    | 11       | 10.9          |
| (1,4204) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HB3  | 12       | 10.9          |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3  | 5        | 10.9          |
| (1,4174) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB2  | 2        | 10.9          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA   | 8        | 10.9          |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 16       | 10.9          |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG   | 6        | 10.9          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2  | 2        | 10.9          |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3  | 2        | 10.9          |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD1  | 14       | 10.9          |
| (1,3506) | 1:A:16:GLY:HA2 | 1:A:25:TYR:HD2  | 14       | 10.9          |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1  | 15       | 10.9          |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2  | 15       | 10.9          |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE1  | 14       | 10.9          |
| (1,3181) | 1:A:14:CYS:H   | 1:A:23:TYR:HE2  | 14       | 10.9          |
| (1,3101) | 1:A:13:GLY:H   | 1:A:22:GLN:H    | 17       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1  | 16       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2  | 16       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1  | 18       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2  | 18       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1  | 19       | 10.9          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2  | 19       | 10.9          |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 18       | 10.9          |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 18       | 10.9          |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 9        | 10.9          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 16       | 10.9          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 8        | 10.9          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 8        | 10.9          |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 15       | 10.9          |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 16       | 10.9          |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 12       | 10.9          |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 12       | 10.9          |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 8        | 10.9          |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 12       | 10.9          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 7        | 10.9          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 4        | 10.9          |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB2  | 19       | 10.9          |
| (1,1914) | 1:A:6:GLN:HE22 | 1:A:32:TYR:HB3  | 19       | 10.9          |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 20       | 10.9          |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 9        | 10.9          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 19       | 10.9          |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 19       | 10.9          |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 17       | 10.9          |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 3        | 10.9          |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 1        | 10.9          |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 1        | 10.9          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2 | 7        | 10.9          |
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2 | 19       | 10.9          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 17       | 10.9          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 17       | 10.9          |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG  | 1        | 10.9          |
| (1,1148) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HA  | 13       | 10.9          |
| (1,1141) | 1:A:4:ASN:HB2   | 1:A:18:LEU:H   | 9        | 10.9          |
| (1,1075) | 1:A:4:ASN:H     | 1:A:20:CYS:HB3 | 17       | 10.9          |
| (1,1033) | 1:A:3:PRO:HD3   | 1:A:27:GLY:H   | 16       | 10.9          |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1 | 9        | 10.89         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2 | 9        | 10.89         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA  | 19       | 10.89         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA  | 19       | 10.89         |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H   | 18       | 10.89         |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H   | 18       | 10.89         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H   | 9        | 10.89         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2 | 16       | 10.89         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2 | 19       | 10.89         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1 | 5        | 10.89         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2 | 5        | 10.89         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 9        | 10.89         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 9        | 10.89         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 9        | 10.89         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 9        | 10.89         |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1 | 17       | 10.89         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3 | 4        | 10.89         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3 | 4        | 10.89         |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 16       | 10.89         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 11       | 10.89         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 11       | 10.89         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2 | 6        | 10.89         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3 | 6        | 10.89         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 10.89         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3 | 6        | 10.89         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3 | 3        | 10.89         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3 | 3        | 10.89         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB2 | 9        | 10.89         |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB3 | 9        | 10.89         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2 | 7        | 10.89         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3 | 7        | 10.89         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2 | 19       | 10.89         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3 | 19       | 10.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 12       | 10.89         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2  | 8        | 10.89         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3  | 8        | 10.89         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2  | 12       | 10.89         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3  | 12       | 10.89         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 16       | 10.89         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 18       | 10.89         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 19       | 10.89         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA   | 20       | 10.89         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 2        | 10.89         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 4        | 10.89         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 10       | 10.89         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 5        | 10.89         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 5        | 10.89         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 5        | 10.89         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 5        | 10.89         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 5        | 10.89         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 5        | 10.89         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 8        | 10.89         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 18       | 10.89         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 19       | 10.89         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 14       | 10.89         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 16       | 10.89         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 16       | 10.89         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 2        | 10.89         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 2        | 10.89         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 1        | 10.89         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 11       | 10.89         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 1        | 10.89         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 18       | 10.89         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 19       | 10.89         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 19       | 10.89         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 19       | 10.89         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 4        | 10.89         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 2        | 10.89         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 2        | 10.89         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 10       | 10.89         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 10       | 10.89         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 15       | 10.89         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 16       | 10.89         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 17       | 10.89         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 19       | 10.89         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 19       | 10.89         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 16       | 10.89         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 18       | 10.89         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 8        | 10.89         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 14       | 10.89         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG   | 19       | 10.89         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 12       | 10.88         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 12       | 10.88         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 16       | 10.88         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 16       | 10.88         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 20       | 10.88         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 20       | 10.88         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 12       | 10.88         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 11       | 10.88         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 11       | 10.88         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H    | 9        | 10.88         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE1  | 4        | 10.88         |
| (1,706)  | 1:A:2:GLY:HA2  | 1:A:32:TYR:HE2  | 4        | 10.88         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 2        | 10.88         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 2        | 10.88         |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 1        | 10.88         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H    | 4        | 10.88         |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H    | 4        | 10.88         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2  | 1        | 10.88         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2  | 1        | 10.88         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3  | 1        | 10.88         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3  | 1        | 10.88         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2  | 14       | 10.88         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2  | 14       | 10.88         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3  | 14       | 10.88         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3  | 14       | 10.88         |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 10       | 10.88         |
| (1,4187) | 1:A:22:GLN:HB2 | 1:A:29:GLY:H    | 16       | 10.88         |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 1        | 10.88         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 19       | 10.88         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 19       | 10.88         |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3  | 15       | 10.88         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD1  | 18       | 10.88         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD2  | 18       | 10.88         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD1  | 19       | 10.88         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD2  | 19       | 10.88         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 15       | 10.88         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG2 | 10       | 10.88         |
| (1,3514) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HG3 | 10       | 10.88         |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 1        | 10.88         |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 1        | 10.88         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE1 | 13       | 10.88         |
| (1,3339) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HE2 | 13       | 10.88         |
| (1,2791) | 1:A:11:TRP:HE3 | 1:A:19:CYS:HA  | 7        | 10.88         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB2 | 14       | 10.88         |
| (1,2693) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HB3 | 14       | 10.88         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 16       | 10.88         |
| (1,2590) | 1:A:11:TRP:H   | 1:A:19:CYS:HB3 | 17       | 10.88         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 6        | 10.88         |
| (1,2271) | 1:A:9:PRO:HB3  | 1:A:26:CYS:HA  | 17       | 10.88         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 12       | 10.88         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 14       | 10.88         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 14       | 10.88         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 18       | 10.88         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 18       | 10.88         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 1        | 10.88         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 9        | 10.88         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 11       | 10.88         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2 | 7        | 10.88         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2 | 7        | 10.88         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 3        | 10.88         |
| (1,1884) | 1:A:6:GLN:HE22 | 1:A:19:CYS:H   | 7        | 10.88         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 4        | 10.88         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 8        | 10.88         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 8        | 10.88         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 8        | 10.88         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 7        | 10.88         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 11       | 10.88         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 5        | 10.88         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2 | 14       | 10.88         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3 | 14       | 10.88         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3 | 13       | 10.88         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 12       | 10.88         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 12       | 10.88         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 13       | 10.88         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 7        | 10.88         |
| (1,1033) | 1:A:3:PRO:HD3  | 1:A:27:GLY:H   | 7        | 10.88         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG  | 11       | 10.88         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 16       | 10.88         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 16       | 10.87         |
| (1,916)  | 1:A:3:PRO:HG2   | 1:A:19:CYS:H    | 19       | 10.87         |
| (1,916)  | 1:A:3:PRO:HG3   | 1:A:19:CYS:H    | 19       | 10.87         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1  | 8        | 10.87         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2  | 8        | 10.87         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2  | 7        | 10.87         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 4        | 10.87         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1  | 7        | 10.87         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2  | 7        | 10.87         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3  | 7        | 10.87         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1  | 7        | 10.87         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2  | 7        | 10.87         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3  | 7        | 10.87         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 10       | 10.87         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 10       | 10.87         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 1        | 10.87         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 1        | 10.87         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 5        | 10.87         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 5        | 10.87         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 3        | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 8        | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 8        | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 13       | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 13       | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 15       | 10.87         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 15       | 10.87         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2  | 8        | 10.87         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2  | 8        | 10.87         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3  | 8        | 10.87         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3  | 8        | 10.87         |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 7        | 10.87         |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 7        | 10.87         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 5        | 10.87         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 5        | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 18       | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 18       | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 19       | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 19       | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 20       | 10.87         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 20       | 10.87         |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2  | 4        | 10.87         |
| (1,3480) | 1:A:16:GLY:H    | 1:A:30:PRO:HD3  | 16       | 10.87         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 6        | 10.87         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 6        | 10.87         |
| (1,3450) | 1:A:15:ARG:HE  | 1:A:35:HIS:HB3 | 12       | 10.87         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2 | 5        | 10.87         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3 | 5        | 10.87         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 17       | 10.87         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H   | 16       | 10.87         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 5        | 10.87         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 5        | 10.87         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 13       | 10.87         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 11       | 10.87         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 11       | 10.87         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 1        | 10.87         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 1        | 10.87         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3 | 8        | 10.87         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3 | 16       | 10.87         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 5        | 10.87         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG  | 13       | 10.87         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 6        | 10.87         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 6        | 10.87         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 6        | 10.87         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 6        | 10.87         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 6        | 10.87         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 6        | 10.87         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 15       | 10.87         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 4        | 10.87         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 4        | 10.87         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 11       | 10.87         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 19       | 10.87         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 19       | 10.87         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 19       | 10.87         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 9        | 10.87         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 16       | 10.87         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 10       | 10.87         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 14       | 10.87         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 12       | 10.87         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 12       | 10.87         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 12       | 10.87         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 11       | 10.87         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H   | 9        | 10.87         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 19       | 10.87         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 4        | 10.87         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA    | 17       | 10.87         |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2  | 4        | 10.87         |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3  | 4        | 10.87         |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG   | 18       | 10.86         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 17       | 10.86         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H    | 12       | 10.86         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 16       | 10.86         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 16       | 10.86         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 16       | 10.86         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 16       | 10.86         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 4        | 10.86         |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2  | 4        | 10.86         |
| (1,4556) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HE1  | 9        | 10.86         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 2        | 10.86         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 2        | 10.86         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 8        | 10.86         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 8        | 10.86         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 2        | 10.86         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 3        | 10.86         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 3        | 10.86         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 3        | 10.86         |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 4        | 10.86         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 2        | 10.86         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 2        | 10.86         |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 2        | 10.86         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 7        | 10.86         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 7        | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 8        | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 8        | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 12       | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 12       | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 15       | 10.86         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 15       | 10.86         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 20       | 10.86         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 20       | 10.86         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2  | 4        | 10.86         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3  | 4        | 10.86         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 17       | 10.86         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 17       | 10.86         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 17       | 10.86         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 17       | 10.86         |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 2        | 10.86         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 2        | 10.86         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 5        | 10.86         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ1  | 8        | 10.86         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ2  | 8        | 10.86         |
| (1,3275) | 1:A:15:ARG:H   | 1:A:31:LYS:HZ3  | 8        | 10.86         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1  | 11       | 10.86         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 13       | 10.86         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 7        | 10.86         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 9        | 10.86         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 18       | 10.86         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 19       | 10.86         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 20       | 10.86         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 14       | 10.86         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 14       | 10.86         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 12       | 10.86         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 1        | 10.86         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 11       | 10.86         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 14       | 10.86         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 5        | 10.86         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 5        | 10.86         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 18       | 10.86         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 11       | 10.86         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 11       | 10.86         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 3        | 10.86         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 6        | 10.86         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 8        | 10.86         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 7        | 10.86         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 3        | 10.86         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 9        | 10.86         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 8        | 10.86         |
| (1,1141) | 1:A:4:ASN:HB2  | 1:A:18:LEU:H    | 20       | 10.86         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 12       | 10.86         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 1        | 10.86         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 9        | 10.86         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 12       | 10.86         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 2        | 10.86         |
| (1,1019) | 1:A:3:PRO:HD3  | 1:A:21:SER:H    | 6        | 10.86         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 19       | 10.85         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 1        | 10.85         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 8        | 10.85         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 5        | 10.85         |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 2        | 10.85         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 12       | 10.85         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 12       | 10.85         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H   | 6        | 10.85         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H   | 6        | 10.85         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H   | 7        | 10.85         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 7        | 10.85         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 11       | 10.85         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 11       | 10.85         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 11       | 10.85         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 11       | 10.85         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 12       | 10.85         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 12       | 10.85         |
| (1,4584) | 1:A:25:TYR:HE1  | 1:A:29:GLY:H   | 10       | 10.85         |
| (1,4584) | 1:A:25:TYR:HE2  | 1:A:29:GLY:H   | 10       | 10.85         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 6        | 10.85         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 6        | 10.85         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 10       | 10.85         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 10       | 10.85         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 5        | 10.85         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 5        | 10.85         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 18       | 10.85         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 18       | 10.85         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 11       | 10.85         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 11       | 10.85         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 11       | 10.85         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 5        | 10.85         |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 3        | 10.85         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 3        | 10.85         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 3        | 10.85         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2 | 6        | 10.85         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2 | 6        | 10.85         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3 | 6        | 10.85         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3 | 6        | 10.85         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA  | 1        | 10.85         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 18       | 10.85         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 18       | 10.85         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 3        | 10.85         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 4        | 10.85         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1 | 5        | 10.85         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2 | 5        | 10.85         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1 | 10       | 10.85         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2 | 10       | 10.85         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 9        | 10.85         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 9        | 10.85         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 20       | 10.85         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 20       | 10.85         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA  | 1        | 10.85         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA  | 8        | 10.85         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA  | 11       | 10.85         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 2        | 10.85         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 2        | 10.85         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 4        | 10.85         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 4        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 3        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 3        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 3        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 3        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 3        | 10.85         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 3        | 10.85         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H   | 7        | 10.85         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 9        | 10.85         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 12       | 10.85         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 4        | 10.85         |
| (1,2147) | 1:A:9:PRO:HA   | 1:A:15:ARG:HB3 | 16       | 10.85         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 7        | 10.85         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 19       | 10.85         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H   | 16       | 10.85         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 12       | 10.85         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 15       | 10.85         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 17       | 10.85         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H   | 15       | 10.85         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 9        | 10.85         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 20       | 10.85         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 6        | 10.85         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 14       | 10.85         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2 | 1        | 10.85         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3 | 1        | 10.85         |
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 11       | 10.85         |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 4        | 10.84         |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 4        | 10.84         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1 | 4        | 10.84         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2 | 4        | 10.84         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1 | 4        | 10.84         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2 | 4        | 10.84         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 10       | 10.84         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 10       | 10.84         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 10       | 10.84         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 10       | 10.84         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1  | 6        | 10.84         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2  | 6        | 10.84         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3  | 6        | 10.84         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1  | 6        | 10.84         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2  | 6        | 10.84         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3  | 6        | 10.84         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 17       | 10.84         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 17       | 10.84         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2  | 12       | 10.84         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3  | 12       | 10.84         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 4        | 10.84         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 4        | 10.84         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 19       | 10.84         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 19       | 10.84         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 4        | 10.84         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 4        | 10.84         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 13       | 10.84         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 9        | 10.84         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 9        | 10.84         |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 1        | 10.84         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 14       | 10.84         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2  | 17       | 10.84         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3  | 17       | 10.84         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2  | 17       | 10.84         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3  | 17       | 10.84         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 2        | 10.84         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 4        | 10.84         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1  | 19       | 10.84         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2  | 19       | 10.84         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 10       | 10.84         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 10       | 10.84         |
| (1,3153) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HB3  | 16       | 10.84         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 6        | 10.84         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 6        | 10.84         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H    | 4        | 10.84         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2  | 2        | 10.84         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3  | 2        | 10.84         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H    | 3        | 10.84         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 15       | 10.84         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA  | 15       | 10.84         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG  | 4        | 10.84         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 11       | 10.84         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 11       | 10.84         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 10       | 10.84         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 2        | 10.84         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 10       | 10.84         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 8        | 10.84         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 11       | 10.84         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 13       | 10.84         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 16       | 10.84         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 20       | 10.84         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 15       | 10.84         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 15       | 10.84         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 12       | 10.84         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 13       | 10.84         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 20       | 10.84         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 1        | 10.84         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3 | 3        | 10.84         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 4        | 10.84         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H   | 15       | 10.84         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 7        | 10.84         |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 6        | 10.84         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 16       | 10.84         |
| (1,1013) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HG  | 20       | 10.84         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 3        | 10.84         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 3        | 10.84         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 14       | 10.83         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H   | 1        | 10.83         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 7        | 10.83         |
| (1,4665) | 1:A:26:CYS:HB2 | 1:A:34:ALA:HA  | 16       | 10.83         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 3        | 10.83         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3 | 3        | 10.83         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 6        | 10.83         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3 | 6        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 3        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 3        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 3        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1 | 3        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2 | 3        | 10.83         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3 | 3        | 10.83         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 16       | 10.83         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 16       | 10.83         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 8        | 10.83         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 8        | 10.83         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 8        | 10.83         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 8        | 10.83         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 14       | 10.83         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 14       | 10.83         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 5        | 10.83         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 16       | 10.83         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 8        | 10.83         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 3        | 10.83         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 5        | 10.83         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 14       | 10.83         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 14       | 10.83         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 14       | 10.83         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1  | 11       | 10.83         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2  | 11       | 10.83         |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1  | 2        | 10.83         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 16       | 10.83         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 16       | 10.83         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 17       | 10.83         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2  | 17       | 10.83         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3  | 17       | 10.83         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 14       | 10.83         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 6        | 10.83         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 2        | 10.83         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 2        | 10.83         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 6        | 10.83         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 6        | 10.83         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 6        | 10.83         |
| (1,3139) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HE22 | 2        | 10.83         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H    | 1        | 10.83         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE1  | 17       | 10.83         |
| (1,3036) | 1:A:12:GLY:H    | 1:A:32:TYR:HE2  | 17       | 10.83         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2  | 4        | 10.83         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3  | 4        | 10.83         |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG2  | 13       | 10.83         |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG3  | 13       | 10.83         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB2  | 17       | 10.83         |
| (1,2693) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HB3  | 17       | 10.83         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA   | 20       | 10.83         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 14       | 10.83         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 11       | 10.83         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 11       | 10.83         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 6        | 10.83         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 10       | 10.83         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 18       | 10.83         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 19       | 10.83         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 13       | 10.83         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 20       | 10.83         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 2        | 10.83         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 6        | 10.83         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 1        | 10.83         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 3        | 10.83         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 4        | 10.83         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 2        | 10.83         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 2        | 10.83         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 10       | 10.83         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 7        | 10.83         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 18       | 10.83         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 12       | 10.83         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 19       | 10.83         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 6        | 10.83         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 6        | 10.83         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H    | 8        | 10.83         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2  | 1        | 10.83         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 14       | 10.83         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 18       | 10.83         |
| (1,916)  | 1:A:3:PRO:HG2  | 1:A:19:CYS:H    | 7        | 10.82         |
| (1,916)  | 1:A:3:PRO:HG3  | 1:A:19:CYS:H    | 7        | 10.82         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 11       | 10.82         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 13       | 10.82         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB2  | 5        | 10.82         |
| (1,634)  | 1:A:2:GLY:H    | 1:A:22:GLN:HB3  | 5        | 10.82         |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H    | 2        | 10.82         |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 14       | 10.82         |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 11       | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2  | 7        | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3  | 7        | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2  | 8        | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3  | 8        | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2  | 14       | 10.82         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3  | 14       | 10.82         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 18       | 10.82         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 18       | 10.82         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 1        | 10.82         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 1        | 10.82         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 10       | 10.82         |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 12       | 10.82         |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 4        | 10.82         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 5        | 10.82         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 11       | 10.82         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 11       | 10.82         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 11       | 10.82         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD1  | 7        | 10.82         |
| (1,3603) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HD2  | 7        | 10.82         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 14       | 10.82         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 11       | 10.82         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 11       | 10.82         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 14       | 10.82         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 14       | 10.82         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H    | 2        | 10.82         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H    | 3        | 10.82         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H    | 10       | 10.82         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 15       | 10.82         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 15       | 10.82         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H    | 4        | 10.82         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H    | 6        | 10.82         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H    | 10       | 10.82         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 4        | 10.82         |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 4        | 10.82         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA   | 18       | 10.82         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA   | 19       | 10.82         |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG   | 2        | 10.82         |
| (1,2467) | 1:A:10:GLY:H    | 1:A:21:SER:HG   | 3        | 10.82         |
| (1,2387) | 1:A:9:PRO:HG3   | 1:A:22:GLN:H    | 15       | 10.82         |
| (1,2387) | 1:A:9:PRO:HG3   | 1:A:22:GLN:H    | 16       | 10.82         |
| (1,2359) | 1:A:9:PRO:HG2   | 1:A:35:HIS:HE1  | 1        | 10.82         |
| (1,2263) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HA   | 8        | 10.82         |
| (1,2159) | 1:A:9:PRO:HA    | 1:A:21:SER:HG   | 3        | 10.82         |
| (1,2034) | 1:A:8:GLY:H     | 1:A:17:GLY:H    | 13       | 10.82         |
| (1,2034) | 1:A:8:GLY:H     | 1:A:17:GLY:H    | 20       | 10.82         |
| (1,2010) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HB2  | 9        | 10.82         |
| (1,2010) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HB2  | 9        | 10.82         |
| (1,1978) | 1:A:7:CYS:HA    | 1:A:33:CYS:H    | 6        | 10.82         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1888) | 1:A:6:GLN:HE22  | 1:A:20:CYS:HB3  | 1        | 10.82         |
| (1,1888) | 1:A:6:GLN:HE22  | 1:A:20:CYS:HB3  | 19       | 10.82         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA   | 3        | 10.82         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA   | 6        | 10.82         |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 8        | 10.82         |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 16       | 10.82         |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 18       | 10.82         |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE21 | 10       | 10.82         |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE22 | 10       | 10.82         |
| (1,1515) | 1:A:6:GLN:H     | 1:A:15:ARG:HE   | 6        | 10.82         |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3  | 4        | 10.82         |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG   | 19       | 10.82         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2  | 10       | 10.82         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H    | 5        | 10.82         |
| (1,1019) | 1:A:3:PRO:HD3   | 1:A:21:SER:H    | 10       | 10.82         |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG   | 9        | 10.82         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H    | 13       | 10.81         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H    | 15       | 10.81         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 3        | 10.81         |
| (1,651)  | 1:A:2:GLY:H     | 1:A:28:SER:H    | 17       | 10.81         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2  | 15       | 10.81         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3  | 15       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 15       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 15       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 15       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 15       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 19       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 19       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 19       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 19       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 20       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 20       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 20       | 10.81         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 20       | 10.81         |
| (1,4556) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HE1  | 1        | 10.81         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 12       | 10.81         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 6        | 10.81         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 6        | 10.81         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 6        | 10.81         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 7        | 10.81         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 7        | 10.81         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2  | 5        | 10.81         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 5        | 10.81         |
| (1,3417) | 1:A:15:ARG:HD2 | 1:A:35:HIS:H   | 7        | 10.81         |
| (1,3417) | 1:A:15:ARG:HD3 | 1:A:35:HIS:H   | 7        | 10.81         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA  | 9        | 10.81         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA  | 9        | 10.81         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1 | 11       | 10.81         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2 | 11       | 10.81         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1 | 11       | 10.81         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2 | 11       | 10.81         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2 | 7        | 10.81         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2 | 7        | 10.81         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3 | 7        | 10.81         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3 | 7        | 10.81         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 6        | 10.81         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 6        | 10.81         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 13       | 10.81         |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2 | 18       | 10.81         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 1        | 10.81         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 1        | 10.81         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA2 | 11       | 10.81         |
| (1,2872) | 1:A:11:TRP:HE1 | 1:A:27:GLY:HA3 | 11       | 10.81         |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 3        | 10.81         |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 3        | 10.81         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 3        | 10.81         |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 3        | 10.81         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG  | 5        | 10.81         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 11       | 10.81         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG  | 5        | 10.81         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 8        | 10.81         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2 | 4        | 10.81         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2 | 4        | 10.81         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2 | 20       | 10.81         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2 | 20       | 10.81         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 14       | 10.81         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2 | 2        | 10.81         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2 | 10       | 10.81         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H   | 20       | 10.81         |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 1        | 10.81         |
| (1,1637) | 1:A:6:GLN:HB3  | 1:A:18:LEU:H   | 9        | 10.81         |
| (1,1602) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HB2 | 14       | 10.81         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2 | 20       | 10.81         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3 | 20       | 10.81         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1417) | 1:A:5:GLY:H     | 1:A:17:GLY:HA3 | 8        | 10.81         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2 | 9        | 10.81         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2 | 15       | 10.81         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3 | 14       | 10.81         |
| (1,1013) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HG  | 7        | 10.81         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1 | 11       | 10.8          |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2 | 11       | 10.8          |
| (1,962)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HG  | 9        | 10.8          |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H   | 20       | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 1        | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 1        | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 9        | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 9        | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 11       | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 11       | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 13       | 10.8          |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 13       | 10.8          |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 18       | 10.8          |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 18       | 10.8          |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 18       | 10.8          |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 18       | 10.8          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 6        | 10.8          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 6        | 10.8          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 14       | 10.8          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 14       | 10.8          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 8        | 10.8          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 19       | 10.8          |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2 | 19       | 10.8          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 4        | 10.8          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 4        | 10.8          |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 15       | 10.8          |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 8        | 10.8          |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 8        | 10.8          |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 13       | 10.8          |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 13       | 10.8          |
| (1,3513) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HB2 | 17       | 10.8          |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 10       | 10.8          |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 10       | 10.8          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2 | 19       | 10.8          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2 | 19       | 10.8          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3 | 19       | 10.8          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3 | 19       | 10.8          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG   | 2        | 10.8          |
| (1,3320) | 1:A:15:ARG:HB2 | 1:A:35:HIS:HB3  | 1        | 10.8          |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG   | 5        | 10.8          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 7        | 10.8          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 7        | 10.8          |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 7        | 10.8          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 10       | 10.8          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 10       | 10.8          |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 5        | 10.8          |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 11       | 10.8          |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 2        | 10.8          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2  | 2        | 10.8          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3  | 2        | 10.8          |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 13       | 10.8          |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 7        | 10.8          |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 18       | 10.8          |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 19       | 10.8          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 5        | 10.8          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 5        | 10.8          |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 13       | 10.8          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 17       | 10.8          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 17       | 10.8          |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 1        | 10.8          |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 10       | 10.8          |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 14       | 10.8          |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 14       | 10.8          |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H    | 3        | 10.8          |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 15       | 10.8          |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 4        | 10.8          |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 15       | 10.8          |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 18       | 10.8          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 17       | 10.8          |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 3        | 10.8          |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 11       | 10.8          |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 1        | 10.8          |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 8        | 10.8          |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 13       | 10.8          |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 15       | 10.8          |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG   | 20       | 10.79         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 14       | 10.79         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 14       | 10.79         |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H    | 4        | 10.79         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 2        | 10.79         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H   | 3        | 10.79         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H   | 8        | 10.79         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 14       | 10.79         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 14       | 10.79         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 14       | 10.79         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 3        | 10.79         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 3        | 10.79         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 6        | 10.79         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 6        | 10.79         |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 2        | 10.79         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG2 | 4        | 10.79         |
| (1,4450) | 1:A:24:GLY:H    | 1:A:30:PRO:HG3 | 4        | 10.79         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 12       | 10.79         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 12       | 10.79         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 3        | 10.79         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 13       | 10.79         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 12       | 10.79         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 2        | 10.79         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 10       | 10.79         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 11       | 10.79         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 11       | 10.79         |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 5        | 10.79         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 2        | 10.79         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 2        | 10.79         |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 6        | 10.79         |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 6        | 10.79         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 20       | 10.79         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 20       | 10.79         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 10       | 10.79         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H   | 4        | 10.79         |
| (1,3107) | 1:A:13:GLY:H    | 1:A:23:TYR:H   | 15       | 10.79         |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA  | 14       | 10.79         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H   | 5        | 10.79         |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB2 | 5        | 10.79         |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB3 | 5        | 10.79         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA  | 7        | 10.79         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA  | 9        | 10.79         |
| (1,2680) | 1:A:11:TRP:HB3  | 1:A:16:GLY:H   | 19       | 10.79         |
| (1,2588) | 1:A:11:TRP:H    | 1:A:19:CYS:H   | 12       | 10.79         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG2 | 14       | 10.79         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG3 | 14       | 10.79         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 7        | 10.79         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 7        | 10.79         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 7        | 10.79         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 7        | 10.79         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 7        | 10.79         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 7        | 10.79         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H   | 20       | 10.79         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 9        | 10.79         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1 | 6        | 10.79         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2 | 6        | 10.79         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1 | 13       | 10.79         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2 | 13       | 10.79         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H   | 8        | 10.79         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H   | 9        | 10.79         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 9        | 10.79         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ1 | 18       | 10.79         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ2 | 18       | 10.79         |
| (1,1678) | 1:A:6:GLN:HB3  | 1:A:31:LYS:HZ3 | 18       | 10.79         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 12       | 10.79         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 14       | 10.79         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3 | 19       | 10.79         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA  | 12       | 10.79         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 11       | 10.79         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1 | 3        | 10.78         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2 | 3        | 10.78         |
| (1,962)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HG  | 7        | 10.78         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 5        | 10.78         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 5        | 10.78         |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H   | 6        | 10.78         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H   | 6        | 10.78         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H   | 10       | 10.78         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H   | 15       | 10.78         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 9        | 10.78         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 9        | 10.78         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 9        | 10.78         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 9        | 10.78         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 9        | 10.78         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 9        | 10.78         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 17       | 10.78         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 17       | 10.78         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3 | 17       | 10.78         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 5        | 10.78         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3  | 5        | 10.78         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2  | 10       | 10.78         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3  | 10       | 10.78         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2  | 17       | 10.78         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3  | 17       | 10.78         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 7        | 10.78         |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 9        | 10.78         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 9        | 10.78         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 9        | 10.78         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 17       | 10.78         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 4        | 10.78         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 4        | 10.78         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 2        | 10.78         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 1        | 10.78         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 1        | 10.78         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG2  | 5        | 10.78         |
| (1,3514) | 1:A:16:GLY:HA2  | 1:A:31:LYS:HG3  | 5        | 10.78         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 3        | 10.78         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 4        | 10.78         |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG   | 8        | 10.78         |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG   | 8        | 10.78         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H    | 4        | 10.78         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 17       | 10.78         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 2        | 10.78         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 15       | 10.78         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 15       | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2  | 5        | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3  | 5        | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2  | 6        | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3  | 6        | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB2  | 16       | 10.78         |
| (1,3004) | 1:A:12:GLY:H    | 1:A:22:GLN:HB3  | 16       | 10.78         |
| (1,2680) | 1:A:11:TRP:HB3  | 1:A:16:GLY:H    | 7        | 10.78         |
| (1,2680) | 1:A:11:TRP:HB3  | 1:A:16:GLY:H    | 18       | 10.78         |
| (1,2387) | 1:A:9:PRO:HG3   | 1:A:22:GLN:H    | 8        | 10.78         |
| (1,2359) | 1:A:9:PRO:HG2   | 1:A:35:HIS:HE1  | 5        | 10.78         |
| (1,2218) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HD1  | 10       | 10.78         |
| (1,2218) | 1:A:9:PRO:HB2   | 1:A:23:TYR:HD2  | 10       | 10.78         |
| (1,2216) | 1:A:9:PRO:HB2   | 1:A:23:TYR:H    | 2        | 10.78         |
| (1,2216) | 1:A:9:PRO:HB2   | 1:A:23:TYR:H    | 4        | 10.78         |
| (1,2163) | 1:A:9:PRO:HA    | 1:A:22:GLN:HE21 | 2        | 10.78         |
| (1,2163) | 1:A:9:PRO:HA    | 1:A:22:GLN:HE22 | 2        | 10.78         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1978) | 1:A:7:CYS:HA    | 1:A:33:CYS:H    | 5        | 10.78         |
| (1,1820) | 1:A:6:GLN:HE21  | 1:A:20:CYS:H    | 16       | 10.78         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA   | 10       | 10.78         |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 1        | 10.78         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG2  | 8        | 10.78         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG3  | 8        | 10.78         |
| (1,1417) | 1:A:5:GLY:H     | 1:A:17:GLY:HA3  | 9        | 10.78         |
| (1,1277) | 1:A:4:ASN:HD21  | 1:A:21:SER:HB2  | 9        | 10.78         |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB2  | 8        | 10.78         |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB3  | 8        | 10.78         |
| (1,1262) | 1:A:4:ASN:HD21  | 1:A:15:ARG:H    | 16       | 10.78         |
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H    | 3        | 10.78         |
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA    | 13       | 10.78         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 4        | 10.78         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H    | 18       | 10.77         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1  | 7        | 10.77         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2  | 7        | 10.77         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2  | 4        | 10.77         |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG2  | 3        | 10.77         |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG3  | 3        | 10.77         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 3        | 10.77         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 3        | 10.77         |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1  | 3        | 10.77         |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1  | 3        | 10.77         |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 3        | 10.77         |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1  | 10       | 10.77         |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1  | 10       | 10.77         |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1  | 7        | 10.77         |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 9        | 10.77         |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA   | 4        | 10.77         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 3        | 10.77         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 11       | 10.77         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 11       | 10.77         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 4        | 10.77         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 10       | 10.77         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 12       | 10.77         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 12       | 10.77         |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 3        | 10.77         |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3  | 3        | 10.77         |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 4        | 10.77         |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3  | 4        | 10.77         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1  | 19       | 10.77         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 19       | 10.77         |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA   | 3        | 10.77         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 17       | 10.77         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 17       | 10.77         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 10       | 10.77         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 9        | 10.77         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1  | 13       | 10.77         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2  | 13       | 10.77         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 6        | 10.77         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 14       | 10.77         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 20       | 10.77         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 10       | 10.77         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 16       | 10.77         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 16       | 10.77         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 9        | 10.77         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1  | 11       | 10.77         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 4        | 10.77         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 7        | 10.77         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 9        | 10.77         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 9        | 10.77         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 7        | 10.77         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 9        | 10.77         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 12       | 10.77         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 15       | 10.77         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 8        | 10.77         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 8        | 10.77         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 14       | 10.77         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 2        | 10.77         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 2        | 10.77         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 7        | 10.77         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 19       | 10.77         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 20       | 10.77         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 20       | 10.77         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 7        | 10.77         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 18       | 10.77         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 19       | 10.77         |
| (1,1820) | 1:A:6:GLN:HE21 | 1:A:20:CYS:H    | 20       | 10.77         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1761) | 1:A:6:GLN:HG3   | 1:A:22:GLN:HE22 | 19       | 10.77         |
| (1,1579) | 1:A:6:GLN:HA    | 1:A:32:TYR:H    | 7        | 10.77         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB2  | 15       | 10.77         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB3  | 15       | 10.77         |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG   | 7        | 10.77         |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3  | 13       | 10.77         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 3        | 10.77         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1  | 14       | 10.76         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2  | 14       | 10.76         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2  | 9        | 10.76         |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3  | 9        | 10.76         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2  | 9        | 10.76         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3  | 9        | 10.76         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H    | 16       | 10.76         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 14       | 10.76         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE1  | 2        | 10.76         |
| (1,706)  | 1:A:2:GLY:HA2   | 1:A:32:TYR:HE2  | 2        | 10.76         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 11       | 10.76         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 11       | 10.76         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 11       | 10.76         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 11       | 10.76         |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1  | 6        | 10.76         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 9        | 10.76         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 9        | 10.76         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 10       | 10.76         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 10       | 10.76         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 6        | 10.76         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 11       | 10.76         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 6        | 10.76         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1  | 13       | 10.76         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2  | 13       | 10.76         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1  | 9        | 10.76         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2  | 9        | 10.76         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 6        | 10.76         |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H    | 1        | 10.76         |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H    | 1        | 10.76         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 14       | 10.76         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 14       | 10.76         |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 11       | 10.76         |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 11       | 10.76         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 7        | 10.76         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 7        | 10.76         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 11       | 10.76         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 11       | 10.76         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3  | 13       | 10.76         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 7        | 10.76         |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 7        | 10.76         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 5        | 10.76         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 8        | 10.76         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 12       | 10.76         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 3        | 10.76         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 10       | 10.76         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 20       | 10.76         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 7        | 10.76         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 11       | 10.76         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 5        | 10.76         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 16       | 10.76         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 20       | 10.76         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 11       | 10.76         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 11       | 10.76         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 9        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 7        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 7        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 7        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 7        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 7        | 10.76         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 7        | 10.76         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 18       | 10.76         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 4        | 10.76         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 2        | 10.76         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 16       | 10.76         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 3        | 10.76         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 3        | 10.76         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 10       | 10.76         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 6        | 10.76         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 10       | 10.76         |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H    | 5        | 10.76         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 17       | 10.76         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 20       | 10.76         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 8        | 10.75         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 8        | 10.75         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 13       | 10.75         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 1        | 10.75         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 1        | 10.75         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 15       | 10.75         |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 15       | 10.75         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 2        | 10.75         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 3        | 10.75         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2 | 10       | 10.75         |
| (1,783)  | 1:A:3:PRO:HB2  | 1:A:13:GLY:H   | 5        | 10.75         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 4        | 10.75         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3 | 4        | 10.75         |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 20       | 10.75         |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 20       | 10.75         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H   | 14       | 10.75         |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H   | 14       | 10.75         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2 | 16       | 10.75         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2 | 16       | 10.75         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3 | 16       | 10.75         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3 | 16       | 10.75         |
| (1,4585) | 1:A:25:TYR:HE1 | 1:A:29:GLY:HA3 | 4        | 10.75         |
| (1,4585) | 1:A:25:TYR:HE2 | 1:A:29:GLY:HA3 | 4        | 10.75         |
| (1,4493) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HG2 | 3        | 10.75         |
| (1,4493) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HG3 | 3        | 10.75         |
| (1,4100) | 1:A:21:SER:HG  | 1:A:35:HIS:HB2 | 14       | 10.75         |
| (1,4100) | 1:A:21:SER:HG  | 1:A:35:HIS:HB3 | 14       | 10.75         |
| (1,4000) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HD3 | 10       | 10.75         |
| (1,3949) | 1:A:20:CYS:H   | 1:A:35:HIS:HE1 | 15       | 10.75         |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2 | 8        | 10.75         |
| (1,3658) | 1:A:18:LEU:H   | 1:A:31:LYS:HG3 | 16       | 10.75         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 3        | 10.75         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 3        | 10.75         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1 | 1        | 10.75         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2 | 1        | 10.75         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H   | 10       | 10.75         |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA  | 3        | 10.75         |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA  | 3        | 10.75         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 5        | 10.75         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 5        | 10.75         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 17       | 10.75         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 17       | 10.75         |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1 | 16       | 10.75         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 5        | 10.75         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 5        | 10.75         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 7        | 10.75         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1 | 10       | 10.75         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 10       | 10.75         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 7        | 10.75         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 7        | 10.75         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 19       | 10.75         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 19       | 10.75         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 7        | 10.75         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 16       | 10.75         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 16       | 10.75         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 18       | 10.75         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 19       | 10.75         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 20       | 10.75         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 16       | 10.75         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 18       | 10.75         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 19       | 10.75         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 6        | 10.75         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 18       | 10.75         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 19       | 10.75         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H    | 17       | 10.75         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 19       | 10.75         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 19       | 10.75         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 2        | 10.75         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 4        | 10.75         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 3        | 10.75         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 5        | 10.75         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 16       | 10.75         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 16       | 10.75         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB2  | 18       | 10.75         |
| (1,1852) | 1:A:6:GLN:HE21 | 1:A:32:TYR:HB3  | 18       | 10.75         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 9        | 10.75         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 6        | 10.75         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 6        | 10.75         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 3        | 10.75         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG2  | 20       | 10.75         |
| (1,1463) | 1:A:5:GLY:HA2  | 1:A:31:LYS:HG3  | 20       | 10.75         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 3        | 10.75         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 20       | 10.75         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 1        | 10.75         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 1        | 10.75         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 20       | 10.75         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 16       | 10.75         |
| (1,908)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HA   | 13       | 10.74         |
| (1,908)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HA   | 13       | 10.74         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 19       | 10.74         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 18       | 10.74         |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 18       | 10.74         |
| (1,807)  | 1:A:3:PRO:HB2  | 1:A:24:GLY:HA2  | 5        | 10.74         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2  | 2        | 10.74         |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3  | 2        | 10.74         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 9        | 10.74         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 9        | 10.74         |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3  | 8        | 10.74         |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 18       | 10.74         |
| (1,4182) | 1:A:22:GLN:HG2 | 1:A:28:SER:H    | 18       | 10.74         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 12       | 10.74         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 12       | 10.74         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1  | 15       | 10.74         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2  | 15       | 10.74         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 11       | 10.74         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 11       | 10.74         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H    | 2        | 10.74         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3  | 5        | 10.74         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3  | 5        | 10.74         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H    | 1        | 10.74         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 10       | 10.74         |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H    | 5        | 10.74         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 2        | 10.74         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 12       | 10.74         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 8        | 10.74         |
| (1,2471) | 1:A:10:GLY:H   | 1:A:23:TYR:HB3  | 17       | 10.74         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 9        | 10.74         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 12       | 10.74         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 18       | 10.74         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 19       | 10.74         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 9        | 10.74         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 8        | 10.74         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 8        | 10.74         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 20       | 10.74         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 8        | 10.74         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 3        | 10.74         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 3        | 10.74         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 4        | 10.74         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 4        | 10.74         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 13       | 10.74         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 13       | 10.74         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1934) | 1:A:7:CYS:H     | 1:A:17:GLY:H    | 13       | 10.74         |
| (1,1852) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HB2  | 19       | 10.74         |
| (1,1852) | 1:A:6:GLN:HE21  | 1:A:32:TYR:HB3  | 19       | 10.74         |
| (1,1827) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HG2  | 10       | 10.74         |
| (1,1666) | 1:A:6:GLN:HB3   | 1:A:28:SER:H    | 11       | 10.74         |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG2  | 18       | 10.74         |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG3  | 18       | 10.74         |
| (1,1492) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HB2  | 15       | 10.74         |
| (1,1417) | 1:A:5:GLY:H     | 1:A:17:GLY:HA3  | 7        | 10.74         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2  | 2        | 10.74         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 9        | 10.74         |
| (1,1186) | 1:A:4:ASN:HB3   | 1:A:10:GLY:H    | 5        | 10.74         |
| (1,1148) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HA   | 5        | 10.74         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 2        | 10.74         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 10       | 10.73         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 9        | 10.73         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H    | 7        | 10.73         |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1  | 17       | 10.73         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 15       | 10.73         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 15       | 10.73         |
| (1,4555) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HD2  | 1        | 10.73         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 3        | 10.73         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 3        | 10.73         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2  | 10       | 10.73         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2  | 10       | 10.73         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3  | 10       | 10.73         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3  | 10       | 10.73         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 7        | 10.73         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 7        | 10.73         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 8        | 10.73         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 8        | 10.73         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 20       | 10.73         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 20       | 10.73         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 13       | 10.73         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 9        | 10.73         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 19       | 10.73         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 5        | 10.73         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 17       | 10.73         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 17       | 10.73         |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1  | 13       | 10.73         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 2        | 10.73         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 2        | 10.73         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2 | 3        | 10.73         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3 | 3        | 10.73         |
| (1,3504) | 1:A:16:GLY:HA2 | 1:A:25:TYR:H   | 17       | 10.73         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1 | 3        | 10.73         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2 | 3        | 10.73         |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H   | 16       | 10.73         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1 | 7        | 10.73         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2 | 7        | 10.73         |
| (1,3319) | 1:A:15:ARG:HB2 | 1:A:35:HIS:H   | 11       | 10.73         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 20       | 10.73         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 12       | 10.73         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 12       | 10.73         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1 | 1        | 10.73         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2 | 1        | 10.73         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3 | 11       | 10.73         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 12       | 10.73         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 12       | 10.73         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA  | 18       | 10.73         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 3        | 10.73         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 3        | 10.73         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3 | 17       | 10.73         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 17       | 10.73         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H   | 12       | 10.73         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 20       | 10.73         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA  | 8        | 10.73         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 1        | 10.73         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 8        | 10.73         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 9        | 10.73         |
| (1,2226) | 1:A:9:PRO:HB2  | 1:A:26:CYS:HA  | 17       | 10.73         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 10       | 10.73         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1 | 12       | 10.73         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2 | 12       | 10.73         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1 | 15       | 10.73         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2 | 15       | 10.73         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 3        | 10.73         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H   | 13       | 10.73         |
| (1,1492) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HB2 | 10       | 10.73         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 6        | 10.73         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 10       | 10.73         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 1        | 10.73         |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 1        | 10.73         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1 | 6        | 10.72         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2  | 6        | 10.72         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1  | 15       | 10.72         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2  | 15       | 10.72         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA   | 15       | 10.72         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA   | 15       | 10.72         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H    | 7        | 10.72         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 2        | 10.72         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 5        | 10.72         |
| (1,807)  | 1:A:3:PRO:HB2   | 1:A:24:GLY:HA2  | 6        | 10.72         |
| (1,783)  | 1:A:3:PRO:HB2   | 1:A:13:GLY:H    | 10       | 10.72         |
| (1,621)  | 1:A:2:GLY:H     | 1:A:15:ARG:HE   | 9        | 10.72         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 1        | 10.72         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 1        | 10.72         |
| (1,4556) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HE1  | 19       | 10.72         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2  | 17       | 10.72         |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2  | 5        | 10.72         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 13       | 10.72         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 13       | 10.72         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 4        | 10.72         |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA   | 8        | 10.72         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 5        | 10.72         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 5        | 10.72         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 5        | 10.72         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 12       | 10.72         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 12       | 10.72         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 12       | 10.72         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 12       | 10.72         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 12       | 10.72         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 12       | 10.72         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 16       | 10.72         |
| (1,3504) | 1:A:16:GLY:HA2  | 1:A:25:TYR:H    | 5        | 10.72         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 9        | 10.72         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 9        | 10.72         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 9        | 10.72         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 9        | 10.72         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2  | 10       | 10.72         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3  | 10       | 10.72         |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H    | 10       | 10.72         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1  | 12       | 10.72         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2  | 12       | 10.72         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 7        | 10.72         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 7        | 10.72         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 12       | 10.72         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 12       | 10.72         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1  | 9        | 10.72         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2  | 9        | 10.72         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 19       | 10.72         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 20       | 10.72         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 10       | 10.72         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 10       | 10.72         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 14       | 10.72         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 14       | 10.72         |
| (1,2871) | 1:A:11:TRP:HE1 | 1:A:27:GLY:H    | 17       | 10.72         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 5        | 10.72         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 15       | 10.72         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE21 | 11       | 10.72         |
| (1,2469) | 1:A:10:GLY:H   | 1:A:22:GLN:HE22 | 11       | 10.72         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 17       | 10.72         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 17       | 10.72         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 8        | 10.72         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 5        | 10.72         |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 5        | 10.72         |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 3        | 10.72         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 4        | 10.72         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 14       | 10.72         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 14       | 10.72         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 12       | 10.72         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 5        | 10.72         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3  | 6        | 10.72         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 16       | 10.72         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 1        | 10.72         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 8        | 10.72         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 1        | 10.72         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 13       | 10.72         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 13       | 10.72         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB2  | 20       | 10.72         |
| (1,1305) | 1:A:4:ASN:HD21 | 1:A:32:TYR:HB3  | 20       | 10.72         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 4        | 10.72         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 4        | 10.72         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 15       | 10.72         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 5        | 10.72         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 10       | 10.72         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 6        | 10.72         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 5        | 10.72         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 6        | 10.72         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 10       | 10.72         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 14       | 10.72         |
| (1,1020) | 1:A:3:PRO:HD3   | 1:A:21:SER:HG   | 18       | 10.72         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2  | 1        | 10.71         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 11       | 10.71         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1  | 16       | 10.71         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2  | 16       | 10.71         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1  | 16       | 10.71         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2  | 16       | 10.71         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3  | 16       | 10.71         |
| (1,4600) | 1:A:25:TYR:HE1  | 1:A:34:ALA:H    | 2        | 10.71         |
| (1,4600) | 1:A:25:TYR:HE2  | 1:A:34:ALA:H    | 2        | 10.71         |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 3        | 10.71         |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 3        | 10.71         |
| (1,4555) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HD2  | 6        | 10.71         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 6        | 10.71         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 6        | 10.71         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 10       | 10.71         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 10       | 10.71         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 4        | 10.71         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 6        | 10.71         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 6        | 10.71         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 6        | 10.71         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 7        | 10.71         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1  | 4        | 10.71         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2  | 4        | 10.71         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 9        | 10.71         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 9        | 10.71         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 11       | 10.71         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 11       | 10.71         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 3        | 10.71         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 6        | 10.71         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1  | 19       | 10.71         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2  | 19       | 10.71         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE1  | 8        | 10.71         |
| (1,3136) | 1:A:13:GLY:H    | 1:A:32:TYR:HE2  | 8        | 10.71         |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 7        | 10.71         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 13       | 10.71         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 13       | 10.71         |
| (1,2691) | 1:A:11:TRP:HB3  | 1:A:22:GLN:HA   | 4        | 10.71         |
| (1,2358) | 1:A:9:PRO:HG2   | 1:A:35:HIS:HD2  | 6        | 10.71         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 6        | 10.71         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 15       | 10.71         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 2        | 10.71         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1 | 6        | 10.71         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2 | 6        | 10.71         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 2        | 10.71         |
| (1,1888) | 1:A:6:GLN:HE22 | 1:A:20:CYS:HB3 | 10       | 10.71         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2 | 13       | 10.71         |
| (1,1825) | 1:A:6:GLN:HE21 | 1:A:22:GLN:H   | 2        | 10.71         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA  | 5        | 10.71         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2 | 16       | 10.71         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3 | 16       | 10.71         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H   | 12       | 10.71         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 1        | 10.71         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H   | 6        | 10.71         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA   | 20       | 10.71         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG  | 7        | 10.71         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1 | 7        | 10.7          |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2 | 7        | 10.7          |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 4        | 10.7          |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 4        | 10.7          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1 | 13       | 10.7          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2 | 13       | 10.7          |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG  | 12       | 10.7          |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H   | 18       | 10.7          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1 | 18       | 10.7          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2 | 18       | 10.7          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1 | 20       | 10.7          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2 | 20       | 10.7          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1 | 11       | 10.7          |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB2 | 16       | 10.7          |
| (1,4612) | 1:A:26:CYS:H   | 1:A:30:PRO:HB3 | 16       | 10.7          |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA  | 6        | 10.7          |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA  | 6        | 10.7          |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA  | 12       | 10.7          |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA  | 12       | 10.7          |
| (1,4585) | 1:A:25:TYR:HE1 | 1:A:29:GLY:HA3 | 7        | 10.7          |
| (1,4585) | 1:A:25:TYR:HE2 | 1:A:29:GLY:HA3 | 7        | 10.7          |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA  | 4        | 10.7          |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA  | 4        | 10.7          |
| (1,4256) | 1:A:22:GLN:HG3 | 1:A:28:SER:H   | 4        | 10.7          |
| (1,4204) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HB3 | 13       | 10.7          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 13       | 10.7          |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 2        | 10.7          |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 14       | 10.7          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 4        | 10.7          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 4        | 10.7          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 4        | 10.7          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 1        | 10.7          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 1        | 10.7          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 20       | 10.7          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 20       | 10.7          |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2  | 16       | 10.7          |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3  | 16       | 10.7          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 11       | 10.7          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 8        | 10.7          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 8        | 10.7          |
| (1,3313) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HD3  | 11       | 10.7          |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1  | 18       | 10.7          |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 9        | 10.7          |
| (1,3102) | 1:A:13:GLY:H    | 1:A:22:GLN:HA   | 16       | 10.7          |
| (1,2962) | 1:A:11:TRP:HH2  | 1:A:13:GLY:HA3  | 3        | 10.7          |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG2  | 16       | 10.7          |
| (1,2841) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HG3  | 16       | 10.7          |
| (1,2680) | 1:A:11:TRP:HB3  | 1:A:16:GLY:H    | 20       | 10.7          |
| (1,2641) | 1:A:11:TRP:HB2  | 1:A:16:GLY:H    | 8        | 10.7          |
| (1,2588) | 1:A:11:TRP:H    | 1:A:19:CYS:H    | 1        | 10.7          |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG2  | 19       | 10.7          |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG3  | 19       | 10.7          |
| (1,2387) | 1:A:9:PRO:HG3   | 1:A:22:GLN:H    | 11       | 10.7          |
| (1,2263) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HA   | 10       | 10.7          |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE1  | 19       | 10.7          |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE2  | 19       | 10.7          |
| (1,2034) | 1:A:8:GLY:H     | 1:A:17:GLY:H    | 5        | 10.7          |
| (1,2034) | 1:A:8:GLY:H     | 1:A:17:GLY:H    | 6        | 10.7          |
| (1,1934) | 1:A:7:CYS:H     | 1:A:17:GLY:H    | 20       | 10.7          |
| (1,1825) | 1:A:6:GLN:HE21  | 1:A:22:GLN:H    | 6        | 10.7          |
| (1,1825) | 1:A:6:GLN:HE21  | 1:A:22:GLN:H    | 10       | 10.7          |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE21 | 18       | 10.7          |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE22 | 18       | 10.7          |
| (1,1637) | 1:A:6:GLN:HB3   | 1:A:18:LEU:H    | 14       | 10.7          |
| (1,1579) | 1:A:6:GLN:HA    | 1:A:32:TYR:H    | 11       | 10.7          |
| (1,1579) | 1:A:6:GLN:HA    | 1:A:32:TYR:H    | 15       | 10.7          |
| (1,1417) | 1:A:5:GLY:H     | 1:A:17:GLY:HA3  | 2        | 10.7          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1366) | 1:A:4:ASN:HD22  | 1:A:27:GLY:H   | 2        | 10.7          |
| (1,1360) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HA  | 11       | 10.7          |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3 | 3        | 10.7          |
| (1,1260) | 1:A:4:ASN:HD21  | 1:A:14:CYS:H   | 1        | 10.7          |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2  | 14       | 10.7          |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3  | 14       | 10.7          |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA  | 1        | 10.7          |
| (1,1148) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HA  | 2        | 10.7          |
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H   | 10       | 10.7          |
| (1,1020) | 1:A:3:PRO:HD3   | 1:A:21:SER:HG  | 19       | 10.7          |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1 | 1        | 10.69         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2 | 1        | 10.69         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA  | 3        | 10.69         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA  | 3        | 10.69         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H   | 14       | 10.69         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H   | 20       | 10.69         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1 | 16       | 10.69         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2 | 16       | 10.69         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1 | 11       | 10.69         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2 | 11       | 10.69         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 10       | 10.69         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 7        | 10.69         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 7        | 10.69         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 7        | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 18       | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 18       | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 19       | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 19       | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB2 | 20       | 10.69         |
| (1,4612) | 1:A:26:CYS:H    | 1:A:30:PRO:HB3 | 20       | 10.69         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H   | 8        | 10.69         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 8        | 10.69         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H   | 11       | 10.69         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 11       | 10.69         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 13       | 10.69         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 13       | 10.69         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 13       | 10.69         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 13       | 10.69         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 18       | 10.69         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 9        | 10.69         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 1        | 10.69         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 20       | 10.69         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE1  | 14       | 10.69         |
| (1,3737) | 1:A:18:LEU:HG  | 1:A:23:TYR:HE2  | 14       | 10.69         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 6        | 10.69         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 6        | 10.69         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 4        | 10.69         |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 11       | 10.69         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 2        | 10.69         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 2        | 10.69         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 10       | 10.69         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 10       | 10.69         |
| (1,3566) | 1:A:17:GLY:H   | 1:A:25:TYR:HB2  | 14       | 10.69         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2  | 12       | 10.69         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3  | 12       | 10.69         |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H    | 9        | 10.69         |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H    | 1        | 10.69         |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H    | 1        | 10.69         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1  | 13       | 10.69         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2  | 13       | 10.69         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 9        | 10.69         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 9        | 10.69         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 2        | 10.69         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 4        | 10.69         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 5        | 10.69         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 6        | 10.69         |
| (1,2962) | 1:A:11:TRP:HH2 | 1:A:13:GLY:HA3  | 10       | 10.69         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 3        | 10.69         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 6        | 10.69         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 9        | 10.69         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 13       | 10.69         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 1        | 10.69         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 3        | 10.69         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 2        | 10.69         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 2        | 10.69         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 7        | 10.69         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 18       | 10.69         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 18       | 10.69         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 5        | 10.69         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 5        | 10.69         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 5        | 10.69         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 5        | 10.69         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 5        | 10.69         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 5        | 10.69         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2010) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HB2  | 16       | 10.69         |
| (1,2010) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HB2  | 16       | 10.69         |
| (1,1934) | 1:A:7:CYS:H     | 1:A:17:GLY:H    | 8        | 10.69         |
| (1,1826) | 1:A:6:GLN:HE21  | 1:A:22:GLN:HA   | 4        | 10.69         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 9        | 10.69         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 9        | 10.69         |
| (1,1417) | 1:A:5:GLY:H     | 1:A:17:GLY:HA3  | 10       | 10.69         |
| (1,1366) | 1:A:4:ASN:HD22  | 1:A:27:GLY:H    | 5        | 10.69         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 4        | 10.69         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 15       | 10.69         |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3  | 20       | 10.69         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA   | 12       | 10.69         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA   | 20       | 10.69         |
| (1,1124) | 1:A:4:ASN:HB2   | 1:A:9:PRO:HA    | 1        | 10.69         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1  | 13       | 10.68         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2  | 13       | 10.68         |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H    | 17       | 10.68         |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG2  | 2        | 10.68         |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG3  | 2        | 10.68         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 20       | 10.68         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 20       | 10.68         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 12       | 10.68         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 12       | 10.68         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 10       | 10.68         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 10       | 10.68         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 11       | 10.68         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 13       | 10.68         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 12       | 10.68         |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 12       | 10.68         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 2        | 10.68         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 19       | 10.68         |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2  | 20       | 10.68         |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3  | 20       | 10.68         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 8        | 10.68         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 19       | 10.68         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 6        | 10.68         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 6        | 10.68         |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 7        | 10.68         |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 7        | 10.68         |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 3        | 10.68         |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 3        | 10.68         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1  | 12       | 10.68         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2  | 12       | 10.68         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 17       | 10.68         |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 2        | 10.68         |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 4        | 10.68         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H    | 12       | 10.68         |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3  | 1        | 10.68         |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3  | 18       | 10.68         |
| (1,2263) | 1:A:9:PRO:HB3   | 1:A:23:TYR:HA   | 2        | 10.68         |
| (1,2261) | 1:A:9:PRO:HB3   | 1:A:21:SER:H    | 12       | 10.68         |
| (1,2214) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HA   | 18       | 10.68         |
| (1,2214) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HA   | 19       | 10.68         |
| (1,2164) | 1:A:9:PRO:HA    | 1:A:23:TYR:H    | 5        | 10.68         |
| (1,2164) | 1:A:9:PRO:HA    | 1:A:23:TYR:H    | 6        | 10.68         |
| (1,2164) | 1:A:9:PRO:HA    | 1:A:23:TYR:H    | 14       | 10.68         |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE1  | 8        | 10.68         |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE2  | 8        | 10.68         |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE21 | 15       | 10.68         |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE22 | 15       | 10.68         |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE21 | 20       | 10.68         |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE22 | 20       | 10.68         |
| (1,2032) | 1:A:8:GLY:H     | 1:A:15:ARG:HE   | 5        | 10.68         |
| (1,2010) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HB2  | 18       | 10.68         |
| (1,2010) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HB2  | 18       | 10.68         |
| (1,1825) | 1:A:6:GLN:HE21  | 1:A:22:GLN:H    | 5        | 10.68         |
| (1,1637) | 1:A:6:GLN:HB3   | 1:A:18:LEU:H    | 17       | 10.68         |
| (1,1464) | 1:A:5:GLY:HA2   | 1:A:33:CYS:H    | 4        | 10.68         |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3  | 14       | 10.68         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA2  | 19       | 10.68         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA3  | 19       | 10.68         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA   | 6        | 10.68         |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2  | 17       | 10.67         |
| (1,764)  | 1:A:3:PRO:HA    | 1:A:28:SER:H    | 19       | 10.67         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 18       | 10.67         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 18       | 10.67         |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2  | 15       | 10.67         |
| (1,4631) | 1:A:26:CYS:H    | 1:A:35:HIS:HE1  | 9        | 10.67         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 4        | 10.67         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 4        | 10.67         |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H    | 19       | 10.67         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 4        | 10.67         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 9        | 10.67         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 12       | 10.67         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA   | 18       | 10.67         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 18       | 10.67         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 18       | 10.67         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA   | 7        | 10.67         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA   | 7        | 10.67         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 2        | 10.67         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 2        | 10.67         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 20       | 10.67         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 20       | 10.67         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 19       | 10.67         |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA   | 6        | 10.67         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1  | 2        | 10.67         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2  | 2        | 10.67         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 12       | 10.67         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 12       | 10.67         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 18       | 10.67         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 18       | 10.67         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1  | 7        | 10.67         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2  | 7        | 10.67         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 6        | 10.67         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 6        | 10.67         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 6        | 10.67         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 4        | 10.67         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 3        | 10.67         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 14       | 10.67         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 8        | 10.67         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 11       | 10.67         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 13       | 10.67         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 12       | 10.67         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 13       | 10.67         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 14       | 10.67         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 12       | 10.67         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 15       | 10.67         |
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H    | 3        | 10.67         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 3        | 10.67         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 3        | 10.67         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 7        | 10.67         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 7        | 10.67         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 11       | 10.67         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 6        | 10.67         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 8        | 10.67         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 19       | 10.67         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H   | 2        | 10.67         |
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA  | 6        | 10.66         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA  | 6        | 10.66         |
| (1,919)  | 1:A:3:PRO:HG2   | 1:A:21:SER:H   | 17       | 10.66         |
| (1,919)  | 1:A:3:PRO:HG3   | 1:A:21:SER:H   | 17       | 10.66         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 1        | 10.66         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 1        | 10.66         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1 | 19       | 10.66         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2 | 19       | 10.66         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 2        | 10.66         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 2        | 10.66         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 2        | 10.66         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 16       | 10.66         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 16       | 10.66         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 16       | 10.66         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 16       | 10.66         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 16       | 10.66         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 16       | 10.66         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H   | 15       | 10.66         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 15       | 10.66         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 7        | 10.66         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 7        | 10.66         |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 16       | 10.66         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 9        | 10.66         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 19       | 10.66         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 20       | 10.66         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 18       | 10.66         |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 4        | 10.66         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2 | 5        | 10.66         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 14       | 10.66         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 14       | 10.66         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 14       | 10.66         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 9        | 10.66         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 5        | 10.66         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 13       | 10.66         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG2 | 9        | 10.66         |
| (1,3411) | 1:A:15:ARG:HD2  | 1:A:30:PRO:HG3 | 9        | 10.66         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG2 | 9        | 10.66         |
| (1,3411) | 1:A:15:ARG:HD3  | 1:A:30:PRO:HG3 | 9        | 10.66         |
| (1,3355) | 1:A:15:ARG:HB3  | 1:A:35:HIS:H   | 15       | 10.66         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 4        | 10.66         |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1 | 9        | 10.66         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 9        | 10.66         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 9        | 10.66         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 9        | 10.66         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 13       | 10.66         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 13       | 10.66         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 20       | 10.66         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 20       | 10.66         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 2        | 10.66         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 6        | 10.66         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 10       | 10.66         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 15       | 10.66         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 15       | 10.66         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 9        | 10.66         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 20       | 10.66         |
| (1,2554) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HA   | 17       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 14       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 14       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 14       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 14       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 14       | 10.66         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 14       | 10.66         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 16       | 10.66         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 11       | 10.66         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 9        | 10.66         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 9        | 10.66         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 1        | 10.66         |
| (1,1716) | 1:A:6:GLN:HG2  | 1:A:22:GLN:HE22 | 7        | 10.66         |
| (1,1666) | 1:A:6:GLN:HB3  | 1:A:28:SER:H    | 17       | 10.66         |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 16       | 10.66         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 4        | 10.66         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 4        | 10.66         |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 6        | 10.66         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 9        | 10.66         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 18       | 10.66         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 4        | 10.66         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 15       | 10.66         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 2        | 10.66         |
| (1,1149) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HB3  | 4        | 10.66         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 17       | 10.66         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 4        | 10.66         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 13       | 10.65         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 13       | 10.65         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,925)  | 1:A:3:PRO:HG2   | 1:A:23:TYR:HA  | 10       | 10.65         |
| (1,925)  | 1:A:3:PRO:HG3   | 1:A:23:TYR:HA  | 10       | 10.65         |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA  | 14       | 10.65         |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA  | 14       | 10.65         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3 | 17       | 10.65         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3 | 17       | 10.65         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 10       | 10.65         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 10       | 10.65         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 10       | 10.65         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 9        | 10.65         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 9        | 10.65         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 9        | 10.65         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 9        | 10.65         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 9        | 10.65         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 9        | 10.65         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 3        | 10.65         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 3        | 10.65         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 3        | 10.65         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 3        | 10.65         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2 | 3        | 10.65         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 10       | 10.65         |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 17       | 10.65         |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 17       | 10.65         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3 | 13       | 10.65         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 1        | 10.65         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 5        | 10.65         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 1        | 10.65         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 14       | 10.65         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2 | 19       | 10.65         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3 | 19       | 10.65         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ1 | 6        | 10.65         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ2 | 6        | 10.65         |
| (1,3541) | 1:A:16:GLY:HA3  | 1:A:31:LYS:HZ3 | 6        | 10.65         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2 | 1        | 10.65         |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3 | 1        | 10.65         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 18       | 10.65         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 18       | 10.65         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 19       | 10.65         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 19       | 10.65         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 2        | 10.65         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 11       | 10.65         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 19       | 10.65         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2 | 19       | 10.65         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3 | 19       | 10.65         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 9        | 10.65         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 9        | 10.65         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H   | 8        | 10.65         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3 | 14       | 10.65         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1 | 2        | 10.65         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2 | 2        | 10.65         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2 | 3        | 10.65         |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3 | 3        | 10.65         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 5        | 10.65         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 5        | 10.65         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 16       | 10.65         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3 | 16       | 10.65         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA  | 14       | 10.65         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 11       | 10.65         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H   | 7        | 10.65         |
| (1,2217) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HB2 | 17       | 10.65         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 14       | 10.65         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 18       | 10.65         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 18       | 10.65         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 1        | 10.65         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3 | 11       | 10.65         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3 | 1        | 10.65         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 14       | 10.65         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H   | 20       | 10.65         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H   | 14       | 10.65         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG  | 14       | 10.65         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 17       | 10.65         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 17       | 10.65         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2 | 15       | 10.64         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA  | 5        | 10.64         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA  | 5        | 10.64         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 14       | 10.64         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 14       | 10.64         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1 | 8        | 10.64         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2 | 8        | 10.64         |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1 | 10       | 10.64         |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2 | 19       | 10.64         |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3 | 19       | 10.64         |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2 | 7        | 10.64         |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2 | 7        | 10.64         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 7        | 10.64         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 7        | 10.64         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 17       | 10.64         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 17       | 10.64         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 17       | 10.64         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 17       | 10.64         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 6        | 10.64         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 6        | 10.64         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 6        | 10.64         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 6        | 10.64         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 12       | 10.64         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 12       | 10.64         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 12       | 10.64         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 12       | 10.64         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 5        | 10.64         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 5        | 10.64         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 16       | 10.64         |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 18       | 10.64         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 16       | 10.64         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 16       | 10.64         |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 7        | 10.64         |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 9        | 10.64         |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 5        | 10.64         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3 | 17       | 10.64         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 11       | 10.64         |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 7        | 10.64         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 1        | 10.64         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 9        | 10.64         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 7        | 10.64         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 7        | 10.64         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA2 | 16       | 10.64         |
| (1,3467) | 1:A:16:GLY:H    | 1:A:24:GLY:HA3 | 16       | 10.64         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 17       | 10.64         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 17       | 10.64         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H   | 13       | 10.64         |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG  | 12       | 10.64         |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG  | 12       | 10.64         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H   | 3        | 10.64         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 9        | 10.64         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 9        | 10.64         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG  | 10       | 10.64         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 1        | 10.64         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 1        | 10.64         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 1        | 10.64         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 18       | 10.64         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 18       | 10.64         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 13       | 10.64         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 13       | 10.64         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 8        | 10.64         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1  | 4        | 10.64         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2  | 4        | 10.64         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 14       | 10.64         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 1        | 10.64         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 18       | 10.64         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H    | 19       | 10.64         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE1  | 17       | 10.64         |
| (1,2394) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HE2  | 17       | 10.64         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 12       | 10.64         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 5        | 10.64         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 1        | 10.64         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 16       | 10.64         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 18       | 10.64         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 19       | 10.64         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 20       | 10.64         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 1        | 10.64         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 1        | 10.64         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 15       | 10.64         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 9        | 10.64         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 17       | 10.64         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 9        | 10.64         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 11       | 10.64         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 12       | 10.64         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 18       | 10.64         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 18       | 10.64         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 7        | 10.64         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 13       | 10.64         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 6        | 10.64         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 2        | 10.64         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3  | 2        | 10.64         |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H    | 13       | 10.63         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 8        | 10.63         |
| (1,764)  | 1:A:3:PRO:HA   | 1:A:28:SER:H    | 16       | 10.63         |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1  | 19       | 10.63         |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2  | 19       | 10.63         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1 | 16       | 10.63         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2 | 16       | 10.63         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3 | 16       | 10.63         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1 | 16       | 10.63         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2 | 16       | 10.63         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3 | 16       | 10.63         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1 | 12       | 10.63         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2 | 12       | 10.63         |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2 | 15       | 10.63         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 7        | 10.63         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H   | 11       | 10.63         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H   | 11       | 10.63         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 1        | 10.63         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 1        | 10.63         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 9        | 10.63         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 9        | 10.63         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 13       | 10.63         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 13       | 10.63         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2 | 6        | 10.63         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 14       | 10.63         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 18       | 10.63         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 11       | 10.63         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 11       | 10.63         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 2        | 10.63         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 2        | 10.63         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3 | 14       | 10.63         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 12       | 10.63         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 12       | 10.63         |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 15       | 10.63         |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 15       | 10.63         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3 | 15       | 10.63         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 3        | 10.63         |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1 | 15       | 10.63         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 20       | 10.63         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 20       | 10.63         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 3        | 10.63         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 11       | 10.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 2        | 10.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 2        | 10.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 8        | 10.63         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 8        | 10.63         |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3 | 2        | 10.63         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 5        | 10.63         |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA   | 10       | 10.63         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1  | 18       | 10.63         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2  | 18       | 10.63         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 19       | 10.63         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 19       | 10.63         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 9        | 10.63         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 20       | 10.63         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 8        | 10.63         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 14       | 10.63         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 14       | 10.63         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 14       | 10.63         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 16       | 10.63         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 16       | 10.63         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 11       | 10.63         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 12       | 10.63         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 13       | 10.63         |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2  | 20       | 10.63         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 20       | 10.63         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 20       | 10.63         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 20       | 10.63         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 1        | 10.63         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 15       | 10.63         |
| (1,1271) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HG   | 9        | 10.63         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 3        | 10.63         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 3        | 10.63         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 11       | 10.63         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 12       | 10.63         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 16       | 10.63         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 9        | 10.63         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 17       | 10.63         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 1        | 10.63         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 7        | 10.63         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 7        | 10.63         |
| (1,925)  | 1:A:3:PRO:HG2  | 1:A:23:TYR:HA   | 2        | 10.62         |
| (1,925)  | 1:A:3:PRO:HG3  | 1:A:23:TYR:HA   | 2        | 10.62         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 6        | 10.62         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 6        | 10.62         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 6        | 10.62         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 6        | 10.62         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 6        | 10.62         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 6        | 10.62         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 6        | 10.62         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 16       | 10.62         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 18       | 10.62         |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 2        | 10.62         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 20       | 10.62         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 14       | 10.62         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 14       | 10.62         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 20       | 10.62         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 20       | 10.62         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2 | 6        | 10.62         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 7        | 10.62         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 7        | 10.62         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 7        | 10.62         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 4        | 10.62         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 4        | 10.62         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 13       | 10.62         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 13       | 10.62         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 12       | 10.62         |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 12       | 10.62         |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 13       | 10.62         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3 | 8        | 10.62         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 7        | 10.62         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 7        | 10.62         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 7        | 10.62         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 18       | 10.62         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 18       | 10.62         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 18       | 10.62         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1 | 9        | 10.62         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2 | 9        | 10.62         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1 | 17       | 10.62         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2 | 17       | 10.62         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 4        | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 5        | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 5        | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 8        | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 8        | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 18       | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 18       | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 19       | 10.62         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 19       | 10.62         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 4        | 10.62         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 1        | 10.62         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2  | 8        | 10.62         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3  | 8        | 10.62         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2  | 20       | 10.62         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3  | 20       | 10.62         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 11       | 10.62         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 11       | 10.62         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H    | 11       | 10.62         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 13       | 10.62         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 13       | 10.62         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 13       | 10.62         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 3        | 10.62         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 12       | 10.62         |
| (1,2857) | 1:A:11:TRP:HE1 | 1:A:22:GLN:H    | 17       | 10.62         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 18       | 10.62         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 18       | 10.62         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 17       | 10.62         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 7        | 10.62         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 5        | 10.62         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 5        | 10.62         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 9        | 10.62         |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 9        | 10.62         |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 15       | 10.62         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 8        | 10.62         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 8        | 10.62         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 13       | 10.62         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 13       | 10.62         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 18       | 10.62         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 19       | 10.62         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 20       | 10.62         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 13       | 10.62         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 3        | 10.62         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 3        | 10.62         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 3        | 10.62         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 3        | 10.62         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 20       | 10.62         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 15       | 10.62         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 3        | 10.62         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 9        | 10.62         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 3        | 10.62         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 14       | 10.61         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1  | 13       | 10.61         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2  | 13       | 10.61         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 18       | 10.61         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 18       | 10.61         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2  | 5        | 10.61         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2  | 5        | 10.61         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3  | 5        | 10.61         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3  | 5        | 10.61         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3  | 19       | 10.61         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3  | 19       | 10.61         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 13       | 10.61         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 13       | 10.61         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 3        | 10.61         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 3        | 10.61         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 6        | 10.61         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 6        | 10.61         |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2  | 9        | 10.61         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 6        | 10.61         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 6        | 10.61         |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1  | 5        | 10.61         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 14       | 10.61         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 14       | 10.61         |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 9        | 10.61         |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 2        | 10.61         |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 4        | 10.61         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 3        | 10.61         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 19       | 10.61         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 19       | 10.61         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE21 | 2        | 10.61         |
| (1,3679) | 1:A:18:LEU:HB2  | 1:A:22:GLN:HE22 | 2        | 10.61         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 18       | 10.61         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 18       | 10.61         |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2  | 17       | 10.61         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE2  | 3        | 10.61         |
| (1,3578) | 1:A:17:GLY:H    | 1:A:31:LYS:HE3  | 3        | 10.61         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 6        | 10.61         |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 6        | 10.61         |
| (1,3252) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HG3  | 14       | 10.61         |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA   | 5        | 10.61         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 17       | 10.61         |
| (1,2588) | 1:A:11:TRP:H    | 1:A:19:CYS:H    | 7        | 10.61         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2  | 9        | 10.61         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2  | 12       | 10.61         |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD11 | 12       | 10.61         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 12       | 10.61         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 12       | 10.61         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 12       | 10.61         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 12       | 10.61         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 12       | 10.61         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 15       | 10.61         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 10       | 10.61         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 10       | 10.61         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 18       | 10.61         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 19       | 10.61         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 14       | 10.61         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 17       | 10.61         |
| (1,1585) | 1:A:6:GLN:HA   | 1:A:35:HIS:HD2  | 3        | 10.61         |
| (1,1579) | 1:A:6:GLN:HA   | 1:A:32:TYR:H    | 16       | 10.61         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 1        | 10.61         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 10       | 10.61         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 4        | 10.61         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 15       | 10.61         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 3        | 10.61         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 5        | 10.61         |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H    | 17       | 10.61         |
| (1,1124) | 1:A:4:ASN:HB2  | 1:A:9:PRO:HA    | 15       | 10.61         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 19       | 10.61         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 19       | 10.61         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 5        | 10.6          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE1  | 4        | 10.6          |
| (1,824)  | 1:A:3:PRO:HB2  | 1:A:32:TYR:HE2  | 4        | 10.6          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 10       | 10.6          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 10       | 10.6          |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 6        | 10.6          |
| (1,594)  | 1:A:1:SER:HB2  | 1:A:35:HIS:HE1  | 1        | 10.6          |
| (1,594)  | 1:A:1:SER:HB3  | 1:A:35:HIS:HE1  | 1        | 10.6          |
| (1,4585) | 1:A:25:TYR:HE1 | 1:A:29:GLY:HA3  | 11       | 10.6          |
| (1,4585) | 1:A:25:TYR:HE2 | 1:A:29:GLY:HA3  | 11       | 10.6          |
| (1,4585) | 1:A:25:TYR:HE1 | 1:A:29:GLY:HA3  | 18       | 10.6          |
| (1,4585) | 1:A:25:TYR:HE2 | 1:A:29:GLY:HA3  | 18       | 10.6          |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 7        | 10.6          |
| (1,4256) | 1:A:22:GLN:HG3 | 1:A:28:SER:H    | 12       | 10.6          |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2  | 14       | 10.6          |
| (1,3759) | 1:A:18:LEU:HG  | 1:A:35:HIS:HB3  | 13       | 10.6          |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 13       | 10.6          |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 13       | 10.6          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 11       | 10.6          |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 13       | 10.6          |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE21 | 15       | 10.6          |
| (1,3679) | 1:A:18:LEU:HB2 | 1:A:22:GLN:HE22 | 15       | 10.6          |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 15       | 10.6          |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 15       | 10.6          |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2  | 9        | 10.6          |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3  | 9        | 10.6          |
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3  | 5        | 10.6          |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 5        | 10.6          |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 6        | 10.6          |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 9        | 10.6          |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 4        | 10.6          |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 4        | 10.6          |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 19       | 10.6          |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 8        | 10.6          |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 8        | 10.6          |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 8        | 10.6          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2  | 17       | 10.6          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 17       | 10.6          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 9        | 10.6          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 15       | 10.6          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 13       | 10.6          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 13       | 10.6          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 13       | 10.6          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 13       | 10.6          |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 1        | 10.6          |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 20       | 10.6          |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 12       | 10.6          |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 8        | 10.6          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 4        | 10.6          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 4        | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 10       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 17       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 17       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 17       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 17       | 10.6          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 17       | 10.6          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 17       | 10.6          |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA  | 3        | 10.6          |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 18       | 10.6          |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 18       | 10.6          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H   | 12       | 10.6          |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2 | 11       | 10.6          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 4        | 10.6          |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 9        | 10.6          |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 15       | 10.6          |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H   | 3        | 10.59         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H   | 4        | 10.59         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG  | 1        | 10.59         |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG  | 14       | 10.59         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA  | 3        | 10.59         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2 | 10       | 10.59         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG2 | 1        | 10.59         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG3 | 1        | 10.59         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG2 | 11       | 10.59         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG3 | 11       | 10.59         |
| (1,4256) | 1:A:22:GLN:HG3 | 1:A:28:SER:H   | 18       | 10.59         |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3 | 12       | 10.59         |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA  | 11       | 10.59         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1 | 7        | 10.59         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2 | 7        | 10.59         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1 | 8        | 10.59         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2 | 8        | 10.59         |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2 | 6        | 10.59         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1 | 9        | 10.59         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2 | 9        | 10.59         |
| (1,3602) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HB3 | 17       | 10.59         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD1 | 15       | 10.59         |
| (1,3567) | 1:A:17:GLY:H   | 1:A:25:TYR:HD2 | 15       | 10.59         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1 | 5        | 10.59         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2 | 5        | 10.59         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3 | 11       | 10.59         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3 | 11       | 10.59         |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 15       | 10.59         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 15       | 10.59         |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 14       | 10.59         |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 14       | 10.59         |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA  | 17       | 10.59         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA   | 17       | 10.59         |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 4        | 10.59         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 5        | 10.59         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 5        | 10.59         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 16       | 10.59         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 13       | 10.59         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 14       | 10.59         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 14       | 10.59         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 13       | 10.59         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 15       | 10.59         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 15       | 10.59         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 13       | 10.59         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 13       | 10.59         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 2        | 10.59         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 2        | 10.59         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 8        | 10.59         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 7        | 10.59         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 7        | 10.59         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 4        | 10.59         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 4        | 10.59         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 11       | 10.59         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 11       | 10.59         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 14       | 10.59         |
| (1,1428) | 1:A:5:GLY:H    | 1:A:22:GLN:HG2  | 10       | 10.59         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 7        | 10.59         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 7        | 10.59         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 8        | 10.59         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 8        | 10.59         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 1        | 10.59         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H    | 20       | 10.59         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 20       | 10.59         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 5        | 10.59         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 6        | 10.59         |
| (1,1150) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HG3  | 16       | 10.59         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 20       | 10.59         |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 17       | 10.58         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 12       | 10.58         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 2        | 10.58         |
| (1,865)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:H    | 10       | 10.58         |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H    | 12       | 10.58         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 15       | 10.58         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2  | 15       | 10.58         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 15       | 10.58         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 15       | 10.58         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 7        | 10.58         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 7        | 10.58         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 17       | 10.58         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 17       | 10.58         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA   | 6        | 10.58         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1  | 11       | 10.58         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2  | 11       | 10.58         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3  | 11       | 10.58         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 9        | 10.58         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 9        | 10.58         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 1        | 10.58         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 1        | 10.58         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 3        | 10.58         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 3        | 10.58         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 12       | 10.58         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 10       | 10.58         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 13       | 10.58         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 4        | 10.58         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 13       | 10.58         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 1        | 10.58         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 11       | 10.58         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 12       | 10.58         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 19       | 10.58         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 20       | 10.58         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 20       | 10.58         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 14       | 10.58         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 14       | 10.58         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1  | 12       | 10.58         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2  | 12       | 10.58         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1  | 16       | 10.58         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2  | 16       | 10.58         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG2  | 20       | 10.58         |
| (1,3577) | 1:A:17:GLY:H    | 1:A:31:LYS:HG3  | 20       | 10.58         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 13       | 10.58         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 11       | 10.58         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 9        | 10.58         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 9        | 10.58         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 15       | 10.58         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 15       | 10.58         |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 18       | 10.58         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 18       | 10.58         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG2  | 19       | 10.58         |
| (1,3286) | 1:A:15:ARG:HA  | 1:A:30:PRO:HG3  | 19       | 10.58         |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA   | 4        | 10.58         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 7        | 10.58         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 6        | 10.58         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 6        | 10.58         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 8        | 10.58         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 8        | 10.58         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 6        | 10.58         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 6        | 10.58         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 7        | 10.58         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 7        | 10.58         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 10       | 10.58         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 14       | 10.58         |
| (1,2691) | 1:A:11:TRP:HB3 | 1:A:22:GLN:HA   | 17       | 10.58         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 20       | 10.58         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 11       | 10.58         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 11       | 10.58         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 14       | 10.58         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 14       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 16       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 16       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 16       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 16       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 16       | 10.58         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 16       | 10.58         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 8        | 10.58         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 1        | 10.58         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 1        | 10.58         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 5        | 10.58         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 5        | 10.58         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 2        | 10.58         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 10       | 10.58         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 12       | 10.58         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 15       | 10.58         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 11       | 10.58         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 6        | 10.58         |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 6        | 10.58         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 13       | 10.58         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 4        | 10.58         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 4        | 10.58         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA  | 5        | 10.58         |
| (1,1187) | 1:A:4:ASN:HB3   | 1:A:10:GLY:HA3 | 10       | 10.58         |
| (1,1020) | 1:A:3:PRO:HD3   | 1:A:21:SER:HG  | 6        | 10.58         |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H   | 17       | 10.57         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2 | 11       | 10.57         |
| (1,865)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:H   | 6        | 10.57         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H   | 11       | 10.57         |
| (1,592)  | 1:A:1:SER:HB2   | 1:A:35:HIS:H   | 9        | 10.57         |
| (1,592)  | 1:A:1:SER:HB3   | 1:A:35:HIS:H   | 9        | 10.57         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2 | 17       | 10.57         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2 | 17       | 10.57         |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 13       | 10.57         |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 13       | 10.57         |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 16       | 10.57         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 9        | 10.57         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 9        | 10.57         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 9        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 1        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 1        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 1        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 1        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 1        | 10.57         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 1        | 10.57         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 8        | 10.57         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 8        | 10.57         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 15       | 10.57         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 15       | 10.57         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2 | 5        | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 12       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 12       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 16       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 16       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 17       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 17       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 18       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 18       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 19       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 19       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 20       | 10.57         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 20       | 10.57         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 17       | 10.57         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2 | 6        | 10.57         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 3        | 10.57         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 3        | 10.57         |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 2        | 10.57         |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 10       | 10.57         |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 13       | 10.57         |
| (1,3586) | 1:A:17:GLY:H   | 1:A:35:HIS:H    | 16       | 10.57         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1  | 9        | 10.57         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2  | 9        | 10.57         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3  | 9        | 10.57         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE1  | 1        | 10.57         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2  | 1        | 10.57         |
| (1,3517) | 1:A:16:GLY:HA2 | 1:A:32:TYR:H    | 12       | 10.57         |
| (1,3484) | 1:A:16:GLY:H   | 1:A:32:TYR:HA   | 9        | 10.57         |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H    | 7        | 10.57         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H    | 7        | 10.57         |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 2        | 10.57         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 20       | 10.57         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 20       | 10.57         |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA   | 2        | 10.57         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 6        | 10.57         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 6        | 10.57         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 9        | 10.57         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 18       | 10.57         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 20       | 10.57         |
| (1,3001) | 1:A:12:GLY:H   | 1:A:22:GLN:H    | 17       | 10.57         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 17       | 10.57         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 5        | 10.57         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 3        | 10.57         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 3        | 10.57         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 3        | 10.57         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 6        | 10.57         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 7        | 10.57         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 19       | 10.57         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 14       | 10.57         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 12       | 10.57         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 12       | 10.57         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 10       | 10.57         |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA   | 14       | 10.57         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 2        | 10.57         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 10       | 10.57         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 9        | 10.57         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 13       | 10.57         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2169) | 1:A:9:PRO:HA    | 1:A:25:TYR:HB3  | 17       | 10.57         |
| (1,1934) | 1:A:7:CYS:H     | 1:A:17:GLY:H    | 15       | 10.57         |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE21 | 12       | 10.57         |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE22 | 12       | 10.57         |
| (1,1515) | 1:A:6:GLN:H     | 1:A:15:ARG:HE   | 10       | 10.57         |
| (1,1366) | 1:A:4:ASN:HD22  | 1:A:27:GLY:H    | 11       | 10.57         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 5        | 10.57         |
| (1,1271) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HG   | 20       | 10.57         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3  | 20       | 10.57         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 19       | 10.57         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE1  | 5        | 10.56         |
| (1,991)  | 1:A:3:PRO:HD2   | 1:A:32:TYR:HE2  | 5        | 10.56         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2  | 16       | 10.56         |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3  | 16       | 10.56         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE1  | 2        | 10.56         |
| (1,824)  | 1:A:3:PRO:HB2   | 1:A:32:TYR:HE2  | 2        | 10.56         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 9        | 10.56         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 13       | 10.56         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 15       | 10.56         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 4        | 10.56         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 1        | 10.56         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 1        | 10.56         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 5        | 10.56         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 5        | 10.56         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 19       | 10.56         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 19       | 10.56         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 7        | 10.56         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 7        | 10.56         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H    | 19       | 10.56         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H    | 19       | 10.56         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 19       | 10.56         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 19       | 10.56         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 20       | 10.56         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 20       | 10.56         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 14       | 10.56         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 14       | 10.56         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 11       | 10.56         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 11       | 10.56         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 2        | 10.56         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 4        | 10.56         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 13       | 10.56         |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 7        | 10.56         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 1        | 10.56         |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 1        | 10.56         |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2 | 2        | 10.56         |
| (1,4000) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HD3 | 7        | 10.56         |
| (1,3586) | 1:A:17:GLY:H   | 1:A:35:HIS:H   | 1        | 10.56         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE1 | 14       | 10.56         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2 | 14       | 10.56         |
| (1,3517) | 1:A:16:GLY:HA2 | 1:A:32:TYR:H   | 8        | 10.56         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2 | 10       | 10.56         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3 | 10       | 10.56         |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3 | 8        | 10.56         |
| (1,3312) | 1:A:15:ARG:HB2 | 1:A:30:PRO:HA  | 14       | 10.56         |
| (1,3300) | 1:A:15:ARG:HB2 | 1:A:24:GLY:H   | 14       | 10.56         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 7        | 10.56         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3 | 4        | 10.56         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H   | 19       | 10.56         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2 | 12       | 10.56         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3 | 12       | 10.56         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H   | 13       | 10.56         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 14       | 10.56         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 12       | 10.56         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 12       | 10.56         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE  | 13       | 10.56         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2 | 8        | 10.56         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2 | 18       | 10.56         |
| (1,2420) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HB2 | 1        | 10.56         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3 | 2        | 10.56         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3 | 18       | 10.56         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA  | 11       | 10.56         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 14       | 10.56         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H   | 5        | 10.56         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA  | 13       | 10.56         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H   | 14       | 10.56         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2 | 19       | 10.56         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3 | 19       | 10.56         |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 17       | 10.56         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H   | 5        | 10.56         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H   | 15       | 10.56         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2 | 20       | 10.56         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 9        | 10.56         |
| (1,1260) | 1:A:4:ASN:HD21 | 1:A:14:CYS:H   | 14       | 10.56         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2  | 1        | 10.56         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3  | 1        | 10.56         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA   | 18       | 10.56         |
| (1,1020) | 1:A:3:PRO:HD3   | 1:A:21:SER:HG  | 2        | 10.56         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2 | 18       | 10.55         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2 | 19       | 10.55         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG  | 20       | 10.55         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1 | 15       | 10.55         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2 | 15       | 10.55         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1 | 16       | 10.55         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2 | 16       | 10.55         |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 3        | 10.55         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1 | 7        | 10.55         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1 | 7        | 10.55         |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 17       | 10.55         |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 17       | 10.55         |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 17       | 10.55         |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 17       | 10.55         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H   | 18       | 10.55         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H   | 18       | 10.55         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD2 | 10       | 10.55         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD2 | 10       | 10.55         |
| (1,4589) | 1:A:25:TYR:HE1  | 1:A:30:PRO:HD3 | 10       | 10.55         |
| (1,4589) | 1:A:25:TYR:HE2  | 1:A:30:PRO:HD3 | 10       | 10.55         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 12       | 10.55         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 12       | 10.55         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 13       | 10.55         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 13       | 10.55         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2 | 15       | 10.55         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3 | 15       | 10.55         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 15       | 10.55         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 15       | 10.55         |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 8        | 10.55         |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 14       | 10.55         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 9        | 10.55         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 10       | 10.55         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 10       | 10.55         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 10       | 10.55         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 18       | 10.55         |
| (1,3680) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HA  | 14       | 10.55         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1 | 7        | 10.55         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2 | 7        | 10.55         |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3 | 3        | 10.55         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3  | 3        | 10.55         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 7        | 10.55         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 16       | 10.55         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 2        | 10.55         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 18       | 10.55         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 18       | 10.55         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 19       | 10.55         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 19       | 10.55         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 10       | 10.55         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 1        | 10.55         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 2        | 10.55         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 4        | 10.55         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 10       | 10.55         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 18       | 10.55         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 18       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 17       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 17       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 17       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 17       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 17       | 10.55         |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 17       | 10.55         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 19       | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 8        | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 8        | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 8        | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 8        | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 8        | 10.55         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 8        | 10.55         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 7        | 10.55         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 19       | 10.55         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 19       | 10.55         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 5        | 10.55         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 15       | 10.55         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 15       | 10.55         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 10       | 10.55         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 10       | 10.55         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 6        | 10.55         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 16       | 10.55         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 16       | 10.55         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 3        | 10.55         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1  | 8        | 10.55         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2  | 8        | 10.55         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1167) | 1:A:4:ASN:HB2   | 1:A:31:LYS:HZ3  | 8        | 10.55         |
| (1,1148) | 1:A:4:ASN:HB2   | 1:A:22:GLN:HA   | 9        | 10.55         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 7        | 10.55         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 8        | 10.55         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 15       | 10.55         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2  | 16       | 10.54         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2  | 20       | 10.54         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2  | 20       | 10.54         |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3  | 20       | 10.54         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 1        | 10.54         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 15       | 10.54         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 3        | 10.54         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 7        | 10.54         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 7        | 10.54         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 7        | 10.54         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 7        | 10.54         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1  | 11       | 10.54         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2  | 11       | 10.54         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3  | 11       | 10.54         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1  | 11       | 10.54         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2  | 11       | 10.54         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3  | 11       | 10.54         |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2  | 3        | 10.54         |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3  | 3        | 10.54         |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2  | 3        | 10.54         |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3  | 3        | 10.54         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3  | 16       | 10.54         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3  | 16       | 10.54         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 20       | 10.54         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 8        | 10.54         |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 8        | 10.54         |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2  | 13       | 10.54         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 12       | 10.54         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 12       | 10.54         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 6        | 10.54         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 6        | 10.54         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 6        | 10.54         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 8        | 10.54         |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 4        | 10.54         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 16       | 10.54         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1  | 3        | 10.54         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2  | 3        | 10.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 17       | 10.54         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 17       | 10.54         |
| (1,3602) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HB3  | 6        | 10.54         |
| (1,3602) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HB3  | 18       | 10.54         |
| (1,3602) | 1:A:17:GLY:HA2 | 1:A:25:TYR:HB3  | 20       | 10.54         |
| (1,3584) | 1:A:17:GLY:H   | 1:A:34:ALA:HA   | 1        | 10.54         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 4        | 10.54         |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3  | 20       | 10.54         |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 3        | 10.54         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 5        | 10.54         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 6        | 10.54         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3  | 2        | 10.54         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3  | 14       | 10.54         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 14       | 10.54         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 14       | 10.54         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 20       | 10.54         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 20       | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 5        | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 5        | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 8        | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 8        | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 9        | 10.54         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 9        | 10.54         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 20       | 10.54         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 20       | 10.54         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 5        | 10.54         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 2        | 10.54         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 10       | 10.54         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 19       | 10.54         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 19       | 10.54         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 4        | 10.54         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 15       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 18       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 18       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 18       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 18       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 18       | 10.54         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 18       | 10.54         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 6        | 10.54         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 16       | 10.54         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 18       | 10.54         |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 11       | 10.54         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 11       | 10.54         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 7        | 10.54         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 9        | 10.54         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 18       | 10.54         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 18       | 10.54         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 17       | 10.54         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 12       | 10.54         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 3        | 10.54         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 3        | 10.54         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 17       | 10.54         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 6        | 10.54         |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 5        | 10.54         |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2  | 17       | 10.54         |
| (1,1277) | 1:A:4:ASN:HD21 | 1:A:21:SER:HB2  | 4        | 10.54         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 14       | 10.54         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 14       | 10.54         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 10       | 10.54         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 5        | 10.54         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 4        | 10.53         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 4        | 10.53         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 7        | 10.53         |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE   | 16       | 10.53         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 18       | 10.53         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 4        | 10.53         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 4        | 10.53         |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 4        | 10.53         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 4        | 10.53         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 4        | 10.53         |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 4        | 10.53         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ1  | 18       | 10.53         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ2  | 18       | 10.53         |
| (1,586)  | 1:A:1:SER:HB2  | 1:A:31:LYS:HZ3  | 18       | 10.53         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ1  | 18       | 10.53         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ2  | 18       | 10.53         |
| (1,586)  | 1:A:1:SER:HB3  | 1:A:31:LYS:HZ3  | 18       | 10.53         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1  | 9        | 10.53         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2  | 9        | 10.53         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA   | 8        | 10.53         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA   | 8        | 10.53         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 11       | 10.53         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 18       | 10.53         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 19       | 10.53         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 17       | 10.53         |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 17       | 10.53         |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 7        | 10.53         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 8        | 10.53         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 8        | 10.53         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 12       | 10.53         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 12       | 10.53         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 2        | 10.53         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 9        | 10.53         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 10       | 10.53         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 10       | 10.53         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 10       | 10.53         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 8        | 10.53         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 8        | 10.53         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 8        | 10.53         |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3  | 19       | 10.53         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 17       | 10.53         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 15       | 10.53         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3  | 19       | 10.53         |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2  | 6        | 10.53         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 11       | 10.53         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 11       | 10.53         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2  | 2        | 10.53         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 14       | 10.53         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 7        | 10.53         |
| (1,3320) | 1:A:15:ARG:HB2  | 1:A:35:HIS:HB3  | 12       | 10.53         |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 4        | 10.53         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 18       | 10.53         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 18       | 10.53         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1  | 14       | 10.53         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2  | 14       | 10.53         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB2  | 7        | 10.53         |
| (1,2903) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HB3  | 7        | 10.53         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 12       | 10.53         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 12       | 10.53         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 19       | 10.53         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 19       | 10.53         |
| (1,2793) | 1:A:11:TRP:HE3  | 1:A:20:CYS:H    | 14       | 10.53         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H    | 14       | 10.53         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2  | 15       | 10.53         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2  | 16       | 10.53         |
| (1,2507) | 1:A:10:GLY:HA2  | 1:A:26:CYS:H    | 5        | 10.53         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 9        | 10.53         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 9        | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 19       | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 19       | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 19       | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 19       | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 19       | 10.53         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 19       | 10.53         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 3        | 10.53         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 12       | 10.53         |
| (1,2212) | 1:A:9:PRO:HB2  | 1:A:21:SER:HG   | 17       | 10.53         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 19       | 10.53         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 16       | 10.53         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 15       | 10.53         |
| (1,1826) | 1:A:6:GLN:HE21 | 1:A:22:GLN:HA   | 6        | 10.53         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 10       | 10.53         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 12       | 10.53         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 11       | 10.53         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 1        | 10.53         |
| (1,1332) | 1:A:4:ASN:HD22 | 1:A:12:GLY:HA3  | 9        | 10.53         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 12       | 10.53         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 12       | 10.53         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 9        | 10.53         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 18       | 10.53         |
| (1,1204) | 1:A:4:ASN:HB3  | 1:A:18:LEU:H    | 19       | 10.53         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 1        | 10.53         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 12       | 10.53         |
| (1,1055) | 1:A:4:ASN:H    | 1:A:9:PRO:HA    | 16       | 10.53         |
| (1,1020) | 1:A:3:PRO:HD3  | 1:A:21:SER:HG   | 10       | 10.53         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 4        | 10.52         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 8        | 10.52         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 3        | 10.52         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 16       | 10.52         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 7        | 10.52         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 1        | 10.52         |
| (1,4513) | 1:A:25:TYR:H   | 1:A:30:PRO:HD2  | 16       | 10.52         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG2  | 4        | 10.52         |
| (1,4512) | 1:A:25:TYR:H   | 1:A:30:PRO:HG3  | 4        | 10.52         |
| (1,4502) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HE1  | 3        | 10.52         |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 8        | 10.52         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1  | 4        | 10.52         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2  | 4        | 10.52         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1  | 20       | 10.52         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2  | 20       | 10.52         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3  | 20       | 10.52         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 16       | 10.52         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 2        | 10.52         |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 2        | 10.52         |
| (1,3418) | 1:A:15:ARG:HD2 | 1:A:35:HIS:HE1  | 10       | 10.52         |
| (1,3418) | 1:A:15:ARG:HD3 | 1:A:35:HIS:HE1  | 10       | 10.52         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 3        | 10.52         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 3        | 10.52         |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 3        | 10.52         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 14       | 10.52         |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 14       | 10.52         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 6        | 10.52         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 6        | 10.52         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 6        | 10.52         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 18       | 10.52         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 18       | 10.52         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 2        | 10.52         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 3        | 10.52         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 18       | 10.52         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 18       | 10.52         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 19       | 10.52         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 19       | 10.52         |
| (1,2541) | 1:A:10:GLY:HA3 | 1:A:21:SER:H    | 17       | 10.52         |
| (1,2503) | 1:A:10:GLY:HA2 | 1:A:25:TYR:H    | 17       | 10.52         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 3        | 10.52         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 7        | 10.52         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 1        | 10.52         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 14       | 10.52         |
| (1,2338) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HB2  | 17       | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 7        | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 20       | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 20       | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 20       | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 20       | 10.52         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 20       | 10.52         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD23 | 20       | 10.52         |
| (1,2225) | 1:A:9:PRO:HB2   | 1:A:26:CYS:H    | 4        | 10.52         |
| (1,2211) | 1:A:9:PRO:HB2   | 1:A:21:SER:H    | 20       | 10.52         |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE1  | 20       | 10.52         |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE2  | 20       | 10.52         |
| (1,1807) | 1:A:6:GLN:HE21  | 1:A:15:ARG:H    | 12       | 10.52         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA   | 4        | 10.52         |
| (1,1464) | 1:A:5:GLY:HA2   | 1:A:33:CYS:H    | 2        | 10.52         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2  | 17       | 10.52         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3  | 17       | 10.52         |
| (1,1366) | 1:A:4:ASN:HD22  | 1:A:27:GLY:H    | 12       | 10.52         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 2        | 10.52         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 8        | 10.52         |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H    | 12       | 10.52         |
| (1,1288) | 1:A:4:ASN:HD21  | 1:A:27:GLY:H    | 17       | 10.52         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 7        | 10.52         |
| (1,1204) | 1:A:4:ASN:HB3   | 1:A:18:LEU:H    | 8        | 10.52         |
| (1,1187) | 1:A:4:ASN:HB3   | 1:A:10:GLY:HA3  | 2        | 10.52         |
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H    | 4        | 10.52         |
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H    | 17       | 10.52         |
| (1,1068) | 1:A:4:ASN:H     | 1:A:18:LEU:H    | 14       | 10.52         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 11       | 10.52         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 6        | 10.51         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 6        | 10.51         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 7        | 10.51         |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 13       | 10.51         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA   | 5        | 10.51         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 4        | 10.51         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 4        | 10.51         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 5        | 10.51         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 5        | 10.51         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 13       | 10.51         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 13       | 10.51         |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 19       | 10.51         |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 19       | 10.51         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 15       | 10.51         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 15       | 10.51         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 13       | 10.51         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 13       | 10.51         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 15       | 10.51         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 11       | 10.51         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 4        | 10.51         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4174) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB2  | 5        | 10.51         |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 6        | 10.51         |
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 7        | 10.51         |
| (1,3584) | 1:A:17:GLY:H   | 1:A:34:ALA:HA   | 11       | 10.51         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1  | 12       | 10.51         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2  | 12       | 10.51         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3  | 12       | 10.51         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1  | 17       | 10.51         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2  | 17       | 10.51         |
| (1,3484) | 1:A:16:GLY:H   | 1:A:32:TYR:HA   | 3        | 10.51         |
| (1,3484) | 1:A:16:GLY:H   | 1:A:32:TYR:HA   | 15       | 10.51         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2  | 15       | 10.51         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3  | 15       | 10.51         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 1        | 10.51         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 1        | 10.51         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 1        | 10.51         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 1        | 10.51         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1  | 3        | 10.51         |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2  | 3        | 10.51         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 10       | 10.51         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 10       | 10.51         |
| (1,3154) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HG3  | 17       | 10.51         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 15       | 10.51         |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H    | 16       | 10.51         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 13       | 10.51         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 8        | 10.51         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 8        | 10.51         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2  | 5        | 10.51         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3  | 5        | 10.51         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 6        | 10.51         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 1        | 10.51         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 3        | 10.51         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 6        | 10.51         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 8        | 10.51         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 8        | 10.51         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 20       | 10.51         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 20       | 10.51         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 5        | 10.51         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 14       | 10.51         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 14       | 10.51         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 7        | 10.51         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 15       | 10.51         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2211) | 1:A:9:PRO:HB2   | 1:A:21:SER:H    | 8        | 10.51         |
| (1,2019) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HD2  | 2        | 10.51         |
| (1,2019) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HD2  | 2        | 10.51         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ1  | 20       | 10.51         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ2  | 20       | 10.51         |
| (1,1967) | 1:A:7:CYS:H     | 1:A:31:LYS:HZ3  | 20       | 10.51         |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB2  | 7        | 10.51         |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB3  | 7        | 10.51         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA   | 2        | 10.51         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE21 | 2        | 10.51         |
| (1,1489) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HE22 | 2        | 10.51         |
| (1,1488) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HB3  | 20       | 10.51         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2  | 2        | 10.51         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3  | 2        | 10.51         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2  | 10       | 10.51         |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3  | 10       | 10.51         |
| (1,1415) | 1:A:5:GLY:H     | 1:A:15:ARG:HE   | 8        | 10.51         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 13       | 10.51         |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H    | 10       | 10.51         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG2  | 9        | 10.51         |
| (1,1265) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HG3  | 9        | 10.51         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG2   | 20       | 10.51         |
| (1,1254) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HG3   | 20       | 10.51         |
| (1,1068) | 1:A:4:ASN:H     | 1:A:18:LEU:H    | 12       | 10.51         |
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 13       | 10.51         |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H    | 3        | 10.5          |
| (1,908)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HA   | 11       | 10.5          |
| (1,908)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HA   | 11       | 10.5          |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 5        | 10.5          |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 6        | 10.5          |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 5        | 10.5          |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 19       | 10.5          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1  | 6        | 10.5          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1  | 6        | 10.5          |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 9        | 10.5          |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG2  | 2        | 10.5          |
| (1,4512) | 1:A:25:TYR:H    | 1:A:30:PRO:HG3  | 2        | 10.5          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 9        | 10.5          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 9        | 10.5          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 8        | 10.5          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 8        | 10.5          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 12       | 10.5          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 14       | 10.5          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 14       | 10.5          |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2 | 9        | 10.5          |
| (1,4185) | 1:A:22:GLN:HB2 | 1:A:28:SER:HB2 | 12       | 10.5          |
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3 | 6        | 10.5          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ1 | 10       | 10.5          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ2 | 10       | 10.5          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ3 | 10       | 10.5          |
| (1,3757) | 1:A:18:LEU:HG  | 1:A:34:ALA:HA  | 14       | 10.5          |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1 | 1        | 10.5          |
| (1,3484) | 1:A:16:GLY:H   | 1:A:32:TYR:HA  | 7        | 10.5          |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 13       | 10.5          |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 13       | 10.5          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H   | 4        | 10.5          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H   | 4        | 10.5          |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 16       | 10.5          |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 16       | 10.5          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 6        | 10.5          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 6        | 10.5          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1 | 4        | 10.5          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2 | 4        | 10.5          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 2        | 10.5          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 4        | 10.5          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 4        | 10.5          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 4        | 10.5          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1 | 13       | 10.5          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2 | 13       | 10.5          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 3        | 10.5          |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 3        | 10.5          |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 12       | 10.5          |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2 | 12       | 10.5          |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3 | 12       | 10.5          |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2 | 14       | 10.5          |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3 | 14       | 10.5          |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 8        | 10.5          |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 11       | 10.5          |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 4        | 10.5          |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 2        | 10.5          |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 4        | 10.5          |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 10       | 10.5          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1 | 16       | 10.5          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2 | 16       | 10.5          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 1        | 10.5          |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 14       | 10.5          |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 15       | 10.5          |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 11       | 10.5          |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 7        | 10.5          |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 7        | 10.5          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 15       | 10.5          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 15       | 10.5          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 15       | 10.5          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 15       | 10.5          |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 8        | 10.5          |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 16       | 10.5          |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 18       | 10.5          |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 19       | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 9        | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 9        | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 9        | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 9        | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 9        | 10.5          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 9        | 10.5          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 4        | 10.5          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 4        | 10.5          |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 11       | 10.5          |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 9        | 10.5          |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 11       | 10.5          |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 8        | 10.5          |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 9        | 10.5          |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 16       | 10.5          |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 8        | 10.5          |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 8        | 10.5          |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 1        | 10.5          |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 18       | 10.5          |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 19       | 10.5          |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 20       | 10.5          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 5        | 10.5          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 5        | 10.5          |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 16       | 10.5          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 8        | 10.5          |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 15       | 10.5          |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 15       | 10.5          |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 8        | 10.5          |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 17       | 10.5          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3  | 17       | 10.5          |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 8        | 10.49         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 19       | 10.49         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H    | 16       | 10.49         |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 15       | 10.49         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 17       | 10.49         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 3        | 10.49         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 3        | 10.49         |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 9        | 10.49         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 7        | 10.49         |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 12       | 10.49         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 14       | 10.49         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 19       | 10.49         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 19       | 10.49         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 19       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 13       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 13       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 13       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 13       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 13       | 10.49         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 13       | 10.49         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 9        | 10.49         |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1  | 8        | 10.49         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3  | 8        | 10.49         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 13       | 10.49         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 4        | 10.49         |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA   | 9        | 10.49         |
| (1,3390) | 1:A:15:ARG:HG3  | 1:A:34:ALA:HA   | 9        | 10.49         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H    | 14       | 10.49         |
| (1,3300) | 1:A:15:ARG:HB2  | 1:A:24:GLY:H    | 1        | 10.49         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1  | 16       | 10.49         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2  | 16       | 10.49         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3  | 16       | 10.49         |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA   | 17       | 10.49         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 13       | 10.49         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD1  | 16       | 10.49         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD2  | 16       | 10.49         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1  | 2        | 10.49         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2  | 2        | 10.49         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1  | 4        | 10.49         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2  | 4        | 10.49         |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 3        | 10.49         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 3        | 10.49         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 3        | 10.49         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 14       | 10.49         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 14       | 10.49         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 14       | 10.49         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2  | 15       | 10.49         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 5        | 10.49         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 16       | 10.49         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 16       | 10.49         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 4        | 10.49         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 11       | 10.49         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 13       | 10.49         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 16       | 10.49         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 6        | 10.49         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 6        | 10.49         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 7        | 10.49         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 18       | 10.49         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 19       | 10.49         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 20       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 16       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 16       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 16       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 16       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 16       | 10.49         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 16       | 10.49         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2  | 4        | 10.49         |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3  | 4        | 10.49         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 11       | 10.49         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 18       | 10.49         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 10       | 10.49         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 10       | 10.49         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 13       | 10.49         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 16       | 10.49         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 7        | 10.49         |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE22 | 7        | 10.49         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 2        | 10.49         |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 20       | 10.49         |
| (1,797)  | 1:A:3:PRO:HB2  | 1:A:21:SER:HG   | 7        | 10.48         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H     | 1        | 10.48         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H     | 17       | 10.48         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 18       | 10.48         |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 5        | 10.48         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 2        | 10.48         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 2        | 10.48         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 2        | 10.48         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 2        | 10.48         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA   | 17       | 10.48         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 13       | 10.48         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 13       | 10.48         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 16       | 10.48         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 16       | 10.48         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 7        | 10.48         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 7        | 10.48         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 14       | 10.48         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 14       | 10.48         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 16       | 10.48         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 16       | 10.48         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 16       | 10.48         |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 11       | 10.48         |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 11       | 10.48         |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 19       | 10.48         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 4        | 10.48         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 4        | 10.48         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 17       | 10.48         |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 17       | 10.48         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 1        | 10.48         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 8        | 10.48         |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 8        | 10.48         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 12       | 10.48         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2  | 20       | 10.48         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3  | 12       | 10.48         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3  | 16       | 10.48         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 6        | 10.48         |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 2        | 10.48         |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2  | 8        | 10.48         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 7        | 10.48         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 4        | 10.48         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 4        | 10.48         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 20       | 10.48         |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 6        | 10.48         |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 6        | 10.48         |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H    | 1        | 10.48         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 1        | 10.48         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 1        | 10.48         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 4        | 10.48         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE1  | 17       | 10.48         |
| (1,3136) | 1:A:13:GLY:H   | 1:A:32:TYR:HE2  | 17       | 10.48         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 4        | 10.48         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 4        | 10.48         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 4        | 10.48         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2  | 1        | 10.48         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2  | 11       | 10.48         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 7        | 10.48         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 7        | 10.48         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 11       | 10.48         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 11       | 10.48         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 7        | 10.48         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 15       | 10.48         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 2        | 10.48         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 2        | 10.48         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 9        | 10.48         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 12       | 10.48         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 1        | 10.48         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 18       | 10.48         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 19       | 10.48         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 3        | 10.48         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 3        | 10.48         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 1        | 10.48         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 15       | 10.48         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 15       | 10.48         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 14       | 10.48         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 14       | 10.48         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 20       | 10.48         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 16       | 10.48         |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 19       | 10.48         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 5        | 10.48         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 5        | 10.48         |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 6        | 10.48         |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 6        | 10.48         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 9        | 10.48         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 5        | 10.48         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB2  | 15       | 10.48         |
| (1,1338) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HB3  | 15       | 10.48         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 5        | 10.48         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 5        | 10.48         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 7        | 10.48         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H   | 3        | 10.48         |
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE  | 16       | 10.48         |
| (1,958)  | 1:A:3:PRO:HD2   | 1:A:14:CYS:HB2 | 9        | 10.47         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG  | 4        | 10.47         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG  | 10       | 10.47         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 20       | 10.47         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 3        | 10.47         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 3        | 10.47         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 3        | 10.47         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 3        | 10.47         |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1 | 2        | 10.47         |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 5        | 10.47         |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 5        | 10.47         |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 5        | 10.47         |
| (1,4740) | 1:A:28:SER:H    | 1:A:35:HIS:HE1 | 4        | 10.47         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA  | 10       | 10.47         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H   | 17       | 10.47         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H   | 17       | 10.47         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 13       | 10.47         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 13       | 10.47         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 4        | 10.47         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 4        | 10.47         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 4        | 10.47         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 4        | 10.47         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2 | 1        | 10.47         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 15       | 10.47         |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 15       | 10.47         |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 6        | 10.47         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 12       | 10.47         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 12       | 10.47         |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 7        | 10.47         |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 7        | 10.47         |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 10       | 10.47         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 9        | 10.47         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 15       | 10.47         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 19       | 10.47         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 19       | 10.47         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 19       | 10.47         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1 | 10       | 10.47         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2 | 10       | 10.47         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 12       | 10.47         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 14       | 10.47         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 6        | 10.47         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 6        | 10.47         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD1  | 14       | 10.47         |
| (1,3368) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HD2  | 14       | 10.47         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD1  | 14       | 10.47         |
| (1,3368) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HD2  | 14       | 10.47         |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3  | 17       | 10.47         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3  | 9        | 10.47         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 8        | 10.47         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 8        | 10.47         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 10       | 10.47         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 5        | 10.47         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 5        | 10.47         |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H    | 18       | 10.47         |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H    | 19       | 10.47         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 9        | 10.47         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 9        | 10.47         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 4        | 10.47         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 4        | 10.47         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 18       | 10.47         |
| (1,2680) | 1:A:11:TRP:HB3 | 1:A:16:GLY:H    | 11       | 10.47         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 6        | 10.47         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 14       | 10.47         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 6        | 10.47         |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 6        | 10.47         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 20       | 10.47         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 7        | 10.47         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 10       | 10.47         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 15       | 10.47         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 10       | 10.47         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 10       | 10.47         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 6        | 10.47         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 11       | 10.47         |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 11       | 10.47         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 8        | 10.47         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 9        | 10.47         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 1        | 10.47         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 1        | 10.47         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 6        | 10.47         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 6        | 10.47         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 6        | 10.47         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 16       | 10.47         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1055) | 1:A:4:ASN:H     | 1:A:9:PRO:HA    | 9        | 10.47         |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE1  | 20       | 10.46         |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2  | 20       | 10.46         |
| (1,623)  | 1:A:2:GLY:H     | 1:A:16:GLY:HA3  | 18       | 10.46         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE21 | 11       | 10.46         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE21 | 11       | 10.46         |
| (1,568)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HE22 | 11       | 10.46         |
| (1,568)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HE22 | 11       | 10.46         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 1        | 10.46         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 1        | 10.46         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 20       | 10.46         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 20       | 10.46         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 3        | 10.46         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 3        | 10.46         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 3        | 10.46         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 3        | 10.46         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 4        | 10.46         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 4        | 10.46         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 7        | 10.46         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 7        | 10.46         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 7        | 10.46         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 7        | 10.46         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 7        | 10.46         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 7        | 10.46         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 12       | 10.46         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 13       | 10.46         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 14       | 10.46         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 15       | 10.46         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 7        | 10.46         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 8        | 10.46         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 8        | 10.46         |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 19       | 10.46         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2  | 8        | 10.46         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 20       | 10.46         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA   | 5        | 10.46         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 3        | 10.46         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG   | 12       | 10.46         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 10.46         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 10.46         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 10.46         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 13       | 10.46         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 13       | 10.46         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE1 | 15       | 10.46         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2 | 15       | 10.46         |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3 | 2        | 10.46         |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3 | 15       | 10.46         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 1        | 10.46         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 1        | 10.46         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 11       | 10.46         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 11       | 10.46         |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA  | 3        | 10.46         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 14       | 10.46         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 14       | 10.46         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1 | 4        | 10.46         |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2 | 4        | 10.46         |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 4        | 10.46         |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 2        | 10.46         |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 4        | 10.46         |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 10       | 10.46         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3 | 17       | 10.46         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H   | 20       | 10.46         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1 | 7        | 10.46         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2 | 7        | 10.46         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1 | 20       | 10.46         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2 | 20       | 10.46         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 1        | 10.46         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 1        | 10.46         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 6        | 10.46         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 6        | 10.46         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 4        | 10.46         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 10       | 10.46         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2 | 5        | 10.46         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2 | 8        | 10.46         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2 | 10       | 10.46         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2 | 20       | 10.46         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 11       | 10.46         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 11       | 10.46         |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2 | 8        | 10.46         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 6        | 10.46         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 6        | 10.46         |
| (1,2398) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HB3 | 17       | 10.46         |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3 | 11       | 10.46         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 14       | 10.46         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 2        | 10.46         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 9        | 10.46         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H   | 12       | 10.46         |
| (1,2165) | 1:A:9:PRO:HA   | 1:A:23:TYR:HB3 | 17       | 10.46         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 17       | 10.46         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 17       | 10.46         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA  | 1        | 10.46         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H   | 8        | 10.46         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1 | 9        | 10.46         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2 | 9        | 10.46         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1 | 11       | 10.46         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2 | 11       | 10.46         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 20       | 10.46         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3 | 16       | 10.46         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 20       | 10.46         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 20       | 10.46         |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 17       | 10.46         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 14       | 10.46         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H   | 3        | 10.46         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H   | 4        | 10.46         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H   | 18       | 10.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ1 | 18       | 10.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ2 | 18       | 10.46         |
| (1,1167) | 1:A:4:ASN:HB2  | 1:A:31:LYS:HZ3 | 18       | 10.46         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 18       | 10.45         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 18       | 10.45         |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 18       | 10.45         |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 18       | 10.45         |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 4        | 10.45         |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 4        | 10.45         |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 6        | 10.45         |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 6        | 10.45         |
| (1,811)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:H   | 18       | 10.45         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H    | 4        | 10.45         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H    | 19       | 10.45         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3  | 4        | 10.45         |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1 | 8        | 10.45         |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1 | 5        | 10.45         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA  | 9        | 10.45         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA  | 12       | 10.45         |
| (1,4578) | 1:A:25:TYR:HD1 | 1:A:34:ALA:HA  | 10       | 10.45         |
| (1,4578) | 1:A:25:TYR:HD2 | 1:A:34:ALA:HA  | 10       | 10.45         |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2 | 7        | 10.45         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 7        | 10.45         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 20       | 10.45         |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 7        | 10.45         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 11       | 10.45         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 11       | 10.45         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 2        | 10.45         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 18       | 10.45         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3  | 14       | 10.45         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD1  | 6        | 10.45         |
| (1,3629) | 1:A:17:GLY:HA3  | 1:A:25:TYR:HD2  | 6        | 10.45         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 14       | 10.45         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 2        | 10.45         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 2        | 10.45         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 8        | 10.45         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 1        | 10.45         |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2  | 3        | 10.45         |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3  | 3        | 10.45         |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2  | 4        | 10.45         |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3  | 4        | 10.45         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1  | 3        | 10.45         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2  | 3        | 10.45         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 1        | 10.45         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 5        | 10.45         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 6        | 10.45         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 15       | 10.45         |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 17       | 10.45         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 7        | 10.45         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 12       | 10.45         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 20       | 10.45         |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 2        | 10.45         |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 2        | 10.45         |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 2        | 10.45         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 2        | 10.45         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 7        | 10.45         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 14       | 10.45         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 18       | 10.45         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2  | 19       | 10.45         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA2  | 17       | 10.45         |
| (1,2872) | 1:A:11:TRP:HE1  | 1:A:27:GLY:HA3  | 17       | 10.45         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H    | 15       | 10.45         |
| (1,2800) | 1:A:11:TRP:HE3  | 1:A:23:TYR:HB3  | 9        | 10.45         |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB2  | 3        | 10.45         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 3        | 10.45         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2  | 4        | 10.45         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 4        | 10.45         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 15       | 10.45         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 15       | 10.45         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 13       | 10.45         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 10       | 10.45         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 10       | 10.45         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 9        | 10.45         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 9        | 10.45         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 15       | 10.45         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 13       | 10.45         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 6        | 10.45         |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 6        | 10.45         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 16       | 10.45         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 18       | 10.45         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 19       | 10.45         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 5        | 10.45         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 7        | 10.45         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 20       | 10.45         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 13       | 10.45         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 9        | 10.45         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 20       | 10.45         |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 17       | 10.45         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 8        | 10.45         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 13       | 10.45         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 10       | 10.45         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 10       | 10.45         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 10.45         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 10.45         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 10.45         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 11       | 10.45         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 11       | 10.45         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 19       | 10.45         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 2        | 10.45         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 2        | 10.45         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 14       | 10.45         |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 17       | 10.45         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE1  | 2        | 10.44         |
| (1,991)  | 1:A:3:PRO:HD2  | 1:A:32:TYR:HE2  | 2        | 10.44         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 14       | 10.44         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 1        | 10.44         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H    | 20       | 10.44         |
| (1,797)  | 1:A:3:PRO:HB2   | 1:A:21:SER:HG   | 2        | 10.44         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H     | 18       | 10.44         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 5        | 10.44         |
| (1,623)  | 1:A:2:GLY:H     | 1:A:16:GLY:HA3  | 16       | 10.44         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H    | 19       | 10.44         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 14       | 10.44         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 14       | 10.44         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 19       | 10.44         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 19       | 10.44         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 19       | 10.44         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 19       | 10.44         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H    | 20       | 10.44         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1  | 5        | 10.44         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2  | 5        | 10.44         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3  | 5        | 10.44         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3  | 9        | 10.44         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 7        | 10.44         |
| (1,4628) | 1:A:26:CYS:H    | 1:A:34:ALA:HA   | 16       | 10.44         |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 17       | 10.44         |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 17       | 10.44         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 8        | 10.44         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 8        | 10.44         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 4        | 10.44         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2  | 8        | 10.44         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 10       | 10.44         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 7        | 10.44         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 7        | 10.44         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 11       | 10.44         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 16       | 10.44         |
| (1,4000) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HD3  | 19       | 10.44         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 9        | 10.44         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 9        | 10.44         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 9        | 10.44         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 9        | 10.44         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 9        | 10.44         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 9        | 10.44         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 18       | 10.44         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 18       | 10.44         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 18       | 10.44         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 16       | 10.44         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 16       | 10.44         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 17       | 10.44         |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 17       | 10.44         |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG  | 4        | 10.44         |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2 | 8        | 10.44         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2 | 5        | 10.44         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3 | 5        | 10.44         |
| (1,3401) | 1:A:15:ARG:HD2 | 1:A:22:GLN:HA  | 19       | 10.44         |
| (1,3401) | 1:A:15:ARG:HD3 | 1:A:22:GLN:HA  | 19       | 10.44         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 9        | 10.44         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 12       | 10.44         |
| (1,3252) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HG3 | 11       | 10.44         |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 14       | 10.44         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 8        | 10.44         |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 8        | 10.44         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1 | 3        | 10.44         |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2 | 3        | 10.44         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 11       | 10.44         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 11       | 10.44         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 3        | 10.44         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 8        | 10.44         |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H   | 8        | 10.44         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2 | 16       | 10.44         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 20       | 10.44         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 20       | 10.44         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2 | 3        | 10.44         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3 | 3        | 10.44         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 18       | 10.44         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 1        | 10.44         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 1        | 10.44         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 10       | 10.44         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 10       | 10.44         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H   | 14       | 10.44         |
| (1,2588) | 1:A:11:TRP:H   | 1:A:19:CYS:H   | 17       | 10.44         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H   | 19       | 10.44         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H   | 20       | 10.44         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG  | 8        | 10.44         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 20       | 10.44         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H   | 4        | 10.44         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 16       | 10.44         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 18       | 10.44         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 19       | 10.44         |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H   | 1        | 10.44         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2225) | 1:A:9:PRO:HB2   | 1:A:26:CYS:H   | 11       | 10.44         |
| (1,1933) | 1:A:7:CYS:H     | 1:A:16:GLY:H   | 16       | 10.44         |
| (1,1680) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HA  | 11       | 10.44         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE1 | 8        | 10.44         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE2 | 8        | 10.44         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE1 | 12       | 10.44         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE2 | 12       | 10.44         |
| (1,1360) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HA  | 7        | 10.44         |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H   | 14       | 10.44         |
| (1,1332) | 1:A:4:ASN:HD22  | 1:A:12:GLY:HA3 | 15       | 10.44         |
| (1,1236) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HA  | 18       | 10.44         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2 | 8        | 10.44         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3 | 3        | 10.44         |
| (1,1186) | 1:A:4:ASN:HB3   | 1:A:10:GLY:H   | 19       | 10.44         |
| (1,1147) | 1:A:4:ASN:HB2   | 1:A:22:GLN:H   | 12       | 10.44         |
| (1,1136) | 1:A:4:ASN:HB2   | 1:A:15:ARG:HB3 | 15       | 10.44         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H   | 16       | 10.43         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H   | 19       | 10.43         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 7        | 10.43         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 15       | 10.43         |
| (1,623)  | 1:A:2:GLY:H     | 1:A:16:GLY:HA3 | 19       | 10.43         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 7        | 10.43         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2 | 3        | 10.43         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2 | 3        | 10.43         |
| (1,4603) | 1:A:25:TYR:HE1  | 1:A:35:HIS:H   | 20       | 10.43         |
| (1,4603) | 1:A:25:TYR:HE2  | 1:A:35:HIS:H   | 20       | 10.43         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 1        | 10.43         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 1        | 10.43         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 9        | 10.43         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 9        | 10.43         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 15       | 10.43         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 15       | 10.43         |
| (1,4513) | 1:A:25:TYR:H    | 1:A:30:PRO:HD2 | 2        | 10.43         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 14       | 10.43         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 14       | 10.43         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 14       | 10.43         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 14       | 10.43         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 13       | 10.43         |
| (1,4185) | 1:A:22:GLN:HB2  | 1:A:28:SER:HB2 | 7        | 10.43         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 5        | 10.43         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 13       | 10.43         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 13       | 10.43         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 13       | 10.43         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 19       | 10.43         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 19       | 10.43         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 19       | 10.43         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 9        | 10.43         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 9        | 10.43         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 9        | 10.43         |
| (1,3757) | 1:A:18:LEU:HG   | 1:A:34:ALA:HA  | 6        | 10.43         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 5        | 10.43         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 7        | 10.43         |
| (1,3602) | 1:A:17:GLY:HA2  | 1:A:25:TYR:HB3 | 15       | 10.43         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG  | 5        | 10.43         |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3 | 18       | 10.43         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 12       | 10.43         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 12       | 10.43         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 12       | 10.43         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 6        | 10.43         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 18       | 10.43         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 19       | 10.43         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 3        | 10.43         |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H   | 2        | 10.43         |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H   | 2        | 10.43         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H   | 16       | 10.43         |
| (1,3165) | 1:A:13:GLY:HA3  | 1:A:32:TYR:H   | 18       | 10.43         |
| (1,3154) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HG3 | 20       | 10.43         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1 | 14       | 10.43         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2 | 14       | 10.43         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 3        | 10.43         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 3        | 10.43         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2 | 4        | 10.43         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2 | 6        | 10.43         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2 | 9        | 10.43         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2 | 12       | 10.43         |
| (1,2943) | 1:A:11:TRP:HZ2  | 1:A:20:CYS:HB2 | 13       | 10.43         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2 | 16       | 10.43         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3 | 16       | 10.43         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2 | 6        | 10.43         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3 | 6        | 10.43         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H   | 1        | 10.43         |
| (1,2806) | 1:A:11:TRP:HE3  | 1:A:27:GLY:H   | 12       | 10.43         |
| (1,2800) | 1:A:11:TRP:HE3  | 1:A:23:TYR:HB3 | 3        | 10.43         |
| (1,2800) | 1:A:11:TRP:HE3  | 1:A:23:TYR:HB3 | 12       | 10.43         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 6        | 10.43         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 13       | 10.43         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 18       | 10.43         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 13       | 10.43         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 8        | 10.43         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 12       | 10.43         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 15       | 10.43         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 18       | 10.43         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 19       | 10.43         |
| (1,1680) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HA   | 15       | 10.43         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 6        | 10.43         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 6        | 10.43         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 13       | 10.43         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 13       | 10.43         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 7        | 10.43         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 7        | 10.43         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 12       | 10.43         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 12       | 10.43         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 20       | 10.43         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 2        | 10.43         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 13       | 10.43         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 11       | 10.43         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 11       | 10.43         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 13       | 10.43         |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 13       | 10.43         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 17       | 10.43         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 17       | 10.43         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 11       | 10.43         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 6        | 10.42         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H     | 8        | 10.42         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H     | 13       | 10.42         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H     | 16       | 10.42         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 17       | 10.42         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1  | 19       | 10.42         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2  | 19       | 10.42         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 11       | 10.42         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 11       | 10.42         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 12       | 10.42         |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2  | 16       | 10.42         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 8        | 10.42         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 14       | 10.42         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 15       | 10.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H    | 5        | 10.42         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H    | 5        | 10.42         |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3  | 7        | 10.42         |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1  | 2        | 10.42         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2  | 11       | 10.42         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3  | 11       | 10.42         |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 17       | 10.42         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3  | 19       | 10.42         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 17       | 10.42         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 17       | 10.42         |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H    | 5        | 10.42         |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H    | 6        | 10.42         |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H    | 6        | 10.42         |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H    | 2        | 10.42         |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H    | 2        | 10.42         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 18       | 10.42         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 20       | 10.42         |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H    | 3        | 10.42         |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA   | 3        | 10.42         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 17       | 10.42         |
| (1,3165) | 1:A:13:GLY:HA3 | 1:A:32:TYR:H    | 19       | 10.42         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 16       | 10.42         |
| (1,3102) | 1:A:13:GLY:H   | 1:A:22:GLN:HA   | 17       | 10.42         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 15       | 10.42         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 15       | 10.42         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 11       | 10.42         |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 11       | 10.42         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 13       | 10.42         |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H    | 9        | 10.42         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 5        | 10.42         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 5        | 10.42         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 5        | 10.42         |
| (1,2943) | 1:A:11:TRP:HZ2 | 1:A:20:CYS:HB2  | 3        | 10.42         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 15       | 10.42         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 15       | 10.42         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 4        | 10.42         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 4        | 10.42         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 17       | 10.42         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 9        | 10.42         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 7        | 10.42         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 16       | 10.42         |
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB2  | 16       | 10.42         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2489) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HB3  | 16       | 10.42         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 12       | 10.42         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 8        | 10.42         |
| (1,2321) | 1:A:9:PRO:HG2  | 1:A:21:SER:HB2  | 17       | 10.42         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 7        | 10.42         |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 7        | 10.42         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 6        | 10.42         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 16       | 10.42         |
| (1,1978) | 1:A:7:CYS:HA   | 1:A:33:CYS:H    | 17       | 10.42         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 17       | 10.42         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 17       | 10.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 7        | 10.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 7        | 10.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 11       | 10.42         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 11       | 10.42         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 19       | 10.42         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 19       | 10.42         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 15       | 10.42         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 1        | 10.42         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 8        | 10.42         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 9        | 10.42         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG2   | 9        | 10.42         |
| (1,1254) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HG3   | 9        | 10.42         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA   | 19       | 10.42         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 4        | 10.42         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 8        | 10.42         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 18       | 10.42         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 19       | 10.42         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 7        | 10.41         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1  | 2        | 10.41         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2  | 2        | 10.41         |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H    | 12       | 10.41         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 1        | 10.41         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 8        | 10.41         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 11       | 10.41         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 13       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 19       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2  | 19       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3  | 19       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1  | 19       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2  | 19       | 10.41         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3  | 19       | 10.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD2  | 2        | 10.41         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD2  | 2        | 10.41         |
| (1,4589) | 1:A:25:TYR:HE1 | 1:A:30:PRO:HD3  | 2        | 10.41         |
| (1,4589) | 1:A:25:TYR:HE2 | 1:A:30:PRO:HD3  | 2        | 10.41         |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3  | 10       | 10.41         |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3  | 10       | 10.41         |
| (1,4389) | 1:A:23:TYR:HB3 | 1:A:31:LYS:H    | 3        | 10.41         |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ1  | 15       | 10.41         |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ2  | 15       | 10.41         |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ3  | 15       | 10.41         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD1  | 10       | 10.41         |
| (1,3736) | 1:A:18:LEU:HG  | 1:A:23:TYR:HD2  | 10       | 10.41         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2  | 15       | 10.41         |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3  | 15       | 10.41         |
| (1,3588) | 1:A:17:GLY:H   | 1:A:35:HIS:HD2  | 14       | 10.41         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG   | 8        | 10.41         |
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H    | 9        | 10.41         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD2  | 6        | 10.41         |
| (1,3516) | 1:A:16:GLY:HA2 | 1:A:31:LYS:HD3  | 6        | 10.41         |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3  | 13       | 10.41         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 2        | 10.41         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 2        | 10.41         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 10       | 10.41         |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 10       | 10.41         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 7        | 10.41         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 8        | 10.41         |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 19       | 10.41         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 5        | 10.41         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 5        | 10.41         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 10       | 10.41         |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 10       | 10.41         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 15       | 10.41         |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 15       | 10.41         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 10       | 10.41         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 10       | 10.41         |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 10       | 10.41         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 18       | 10.41         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 18       | 10.41         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 20       | 10.41         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 20       | 10.41         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 14       | 10.41         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 14       | 10.41         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 8        | 10.41         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 10       | 10.41         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 9        | 10.41         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 20       | 10.41         |
| (1,2261) | 1:A:9:PRO:HB3  | 1:A:21:SER:H    | 3        | 10.41         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 11       | 10.41         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 13       | 10.41         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 14       | 10.41         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE1  | 14       | 10.41         |
| (1,2055) | 1:A:8:GLY:H    | 1:A:23:TYR:HE2  | 14       | 10.41         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 17       | 10.41         |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 17       | 10.41         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 18       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 13       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 13       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 13       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 13       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 13       | 10.41         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 13       | 10.41         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 7        | 10.41         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 14       | 10.41         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 7        | 10.41         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3  | 18       | 10.41         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 15       | 10.41         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 7        | 10.41         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 1        | 10.41         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 6        | 10.41         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 6        | 10.41         |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H    | 3        | 10.4          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H    | 3        | 10.4          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1  | 10       | 10.4          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2  | 10       | 10.4          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2  | 12       | 10.4          |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 3        | 10.4          |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA   | 6        | 10.4          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3  | 18       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 20       | 10.4          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2  | 20       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3  | 20       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1  | 20       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2  | 20       | 10.4          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3  | 20       | 10.4          |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 5        | 10.4          |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 5        | 10.4          |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 2        | 10.4          |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 2        | 10.4          |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 11       | 10.4          |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 11       | 10.4          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 16       | 10.4          |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2  | 16       | 10.4          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 10.4          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 10.4          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 15       | 10.4          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 15       | 10.4          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 15       | 10.4          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 10       | 10.4          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 10       | 10.4          |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 5        | 10.4          |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 5        | 10.4          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 19       | 10.4          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 19       | 10.4          |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 16       | 10.4          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 17       | 10.4          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA   | 12       | 10.4          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 15       | 10.4          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 15       | 10.4          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 20       | 10.4          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 20       | 10.4          |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1  | 5        | 10.4          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 14       | 10.4          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 14       | 10.4          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 11       | 10.4          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA   | 3        | 10.4          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA   | 3        | 10.4          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 17       | 10.4          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 17       | 10.4          |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG2  | 16       | 10.4          |
| (1,3286) | 1:A:15:ARG:HA   | 1:A:30:PRO:HG3  | 16       | 10.4          |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA   | 6        | 10.4          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD1  | 14       | 10.4          |
| (1,3157) | 1:A:13:GLY:HA3 | 1:A:23:TYR:HD2  | 14       | 10.4          |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1  | 9        | 10.4          |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2  | 9        | 10.4          |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2  | 14       | 10.4          |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 14       | 10.4          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE21 | 19       | 10.4          |
| (1,3006) | 1:A:12:GLY:H   | 1:A:22:GLN:HE22 | 19       | 10.4          |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 15       | 10.4          |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 1        | 10.4          |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 2        | 10.4          |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 2        | 10.4          |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 13       | 10.4          |
| (1,2744) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HG2  | 9        | 10.4          |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 3        | 10.4          |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 6        | 10.4          |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 14       | 10.4          |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 5        | 10.4          |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 12       | 10.4          |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 9        | 10.4          |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 1        | 10.4          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 6        | 10.4          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 6        | 10.4          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 12       | 10.4          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 19       | 10.4          |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 14       | 10.4          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 9        | 10.4          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 9        | 10.4          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 20       | 10.4          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 20       | 10.4          |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 5        | 10.4          |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 13       | 10.4          |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 15       | 10.4          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 17       | 10.4          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 17       | 10.4          |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 16       | 10.4          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 9        | 10.4          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 20       | 10.4          |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 12       | 10.4          |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 15       | 10.4          |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 20       | 10.4          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 15       | 10.39         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3 | 15       | 10.39         |
| (1,927)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:H   | 11       | 10.39         |
| (1,927)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:H   | 11       | 10.39         |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA  | 17       | 10.39         |
| (1,811)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:H   | 7        | 10.39         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 3        | 10.39         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 11       | 10.39         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 12       | 10.39         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 14       | 10.39         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG  | 2        | 10.39         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 1        | 10.39         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 7        | 10.39         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 9        | 10.39         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 11       | 10.39         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 17       | 10.39         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 17       | 10.39         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 1        | 10.39         |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 17       | 10.39         |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 6        | 10.39         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 4        | 10.39         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2 | 13       | 10.39         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3 | 13       | 10.39         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG  | 2        | 10.39         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG  | 10       | 10.39         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 9        | 10.39         |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3 | 7        | 10.39         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 20       | 10.39         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2 | 3        | 10.39         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 15       | 10.39         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 15       | 10.39         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2 | 4        | 10.39         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3 | 4        | 10.39         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 1        | 10.39         |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA  | 5        | 10.39         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1 | 12       | 10.39         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2 | 12       | 10.39         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1 | 1        | 10.39         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2 | 1        | 10.39         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1 | 5        | 10.39         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2 | 5        | 10.39         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 6        | 10.39         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 6        | 10.39         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2 | 5        | 10.39         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3 | 5        | 10.39         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2 | 10       | 10.39         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3 | 10       | 10.39         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 19       | 10.39         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 12       | 10.39         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H   | 1        | 10.39         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2 | 4        | 10.39         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2 | 3        | 10.39         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA  | 2        | 10.39         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 15       | 10.39         |
| (1,2270) | 1:A:9:PRO:HB3  | 1:A:26:CYS:H   | 17       | 10.39         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H   | 8        | 10.39         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H   | 15       | 10.39         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 13       | 10.39         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 18       | 10.39         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 9        | 10.39         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 3        | 10.39         |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 8        | 10.39         |
| (1,1353) | 1:A:4:ASN:HD22 | 1:A:21:SER:HB3 | 7        | 10.39         |
| (1,1236) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HA  | 2        | 10.39         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA  | 14       | 10.39         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H   | 4        | 10.39         |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 17       | 10.39         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 10       | 10.38         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 10       | 10.38         |
| (1,772)  | 1:A:3:PRO:HB2  | 1:A:8:GLY:H    | 2        | 10.38         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 16       | 10.38         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 16       | 10.38         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 18       | 10.38         |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 18       | 10.38         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1 | 13       | 10.38         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2 | 13       | 10.38         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1 | 13       | 10.38         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2 | 13       | 10.38         |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 13       | 10.38         |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1 | 3        | 10.38         |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2 | 3        | 10.38         |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3 | 3        | 10.38         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA  | 15       | 10.38         |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA  | 7        | 10.38         |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA  | 7        | 10.38         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2 | 17       | 10.38         |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3 | 17       | 10.38         |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H   | 6        | 10.38         |
| (1,4421) | 1:A:23:TYR:HE2 | 1:A:29:GLY:H   | 6        | 10.38         |
| (1,4389) | 1:A:23:TYR:HB3 | 1:A:31:LYS:H   | 5        | 10.38         |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H   | 6        | 10.38         |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3 | 19       | 10.38         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD1 | 14       | 10.38         |
| (1,3629) | 1:A:17:GLY:HA3 | 1:A:25:TYR:HD2 | 14       | 10.38         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 18       | 10.38         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 19       | 10.38         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 20       | 10.38         |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3 | 11       | 10.38         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1 | 7        | 10.38         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2 | 7        | 10.38         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3 | 10       | 10.38         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3 | 11       | 10.38         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 8        | 10.38         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 8        | 10.38         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 11       | 10.38         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 11       | 10.38         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 1        | 10.38         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 11       | 10.38         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2 | 8        | 10.38         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3 | 8        | 10.38         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H   | 8        | 10.38         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H   | 11       | 10.38         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 2        | 10.38         |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 2        | 10.38         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H   | 18       | 10.38         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 10       | 10.38         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H   | 13       | 10.38         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD1 | 17       | 10.38         |
| (1,2166) | 1:A:9:PRO:HA   | 1:A:23:TYR:HD2 | 17       | 10.38         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 5        | 10.38         |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 5        | 10.38         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 5        | 10.38         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 5        | 10.38         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2 | 5        | 10.38         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 16       | 10.38         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 16       | 10.38         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 11       | 10.38         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2012) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HZ2  | 11       | 10.38         |
| (1,2012) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HZ3  | 11       | 10.38         |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ1  | 11       | 10.38         |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ2  | 11       | 10.38         |
| (1,2012) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HZ3  | 11       | 10.38         |
| (1,1595) | 1:A:6:GLN:HB2   | 1:A:19:CYS:HB3  | 4        | 10.38         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB2  | 8        | 10.38         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB3  | 8        | 10.38         |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H    | 2        | 10.37         |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H    | 13       | 10.37         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H     | 9        | 10.37         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 18       | 10.37         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 18       | 10.37         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 18       | 10.37         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 18       | 10.37         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 16       | 10.37         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 16       | 10.37         |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2  | 4        | 10.37         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA   | 10       | 10.37         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA   | 17       | 10.37         |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 4        | 10.37         |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 4        | 10.37         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 9        | 10.37         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 9        | 10.37         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 9        | 10.37         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 9        | 10.37         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 14       | 10.37         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 14       | 10.37         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 14       | 10.37         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 14       | 10.37         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 8        | 10.37         |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 8        | 10.37         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 19       | 10.37         |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 19       | 10.37         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 12       | 10.37         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 13       | 10.37         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 13       | 10.37         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 13       | 10.37         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 12       | 10.37         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 12       | 10.37         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 12       | 10.37         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 5        | 10.37         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 5        | 10.37         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 5        | 10.37         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 5        | 10.37         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 5        | 10.37         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 5        | 10.37         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 5        | 10.37         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 3        | 10.37         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 3        | 10.37         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 20       | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1  | 7        | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2  | 7        | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1  | 12       | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2  | 12       | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1  | 15       | 10.37         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2  | 15       | 10.37         |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG2  | 12       | 10.37         |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG3  | 12       | 10.37         |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 3        | 10.37         |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 15       | 10.37         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 6        | 10.37         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 6        | 10.37         |
| (1,2641) | 1:A:11:TRP:HB2  | 1:A:16:GLY:H    | 11       | 10.37         |
| (1,2555) | 1:A:10:GLY:HA3  | 1:A:26:CYS:HB2  | 2        | 10.37         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 7        | 10.37         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 16       | 10.37         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 19       | 10.37         |
| (1,2507) | 1:A:10:GLY:HA2  | 1:A:26:CYS:H    | 12       | 10.37         |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE1  | 6        | 10.37         |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE2  | 6        | 10.37         |
| (1,2337) | 1:A:9:PRO:HG2   | 1:A:26:CYS:HA   | 6        | 10.37         |
| (1,2266) | 1:A:9:PRO:HB3   | 1:A:25:TYR:H    | 12       | 10.37         |
| (1,2210) | 1:A:9:PRO:HB2   | 1:A:20:CYS:H    | 5        | 10.37         |
| (1,2092) | 1:A:8:GLY:HA2   | 1:A:27:GLY:HA3  | 13       | 10.37         |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB2  | 12       | 10.37         |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB3  | 12       | 10.37         |
| (1,1595) | 1:A:6:GLN:HB2   | 1:A:19:CYS:HB3  | 6        | 10.37         |
| (1,1353) | 1:A:4:ASN:HD22  | 1:A:21:SER:HB3  | 19       | 10.37         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA2  | 17       | 10.37         |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA3  | 17       | 10.37         |
| (1,1186) | 1:A:4:ASN:HB3   | 1:A:10:GLY:H    | 16       | 10.37         |
| (1,1068) | 1:A:4:ASN:H     | 1:A:18:LEU:H    | 7        | 10.37         |
| (1,1068) | 1:A:4:ASN:H     | 1:A:18:LEU:H    | 8        | 10.37         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2 | 1        | 10.37         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3 | 1        | 10.37         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H   | 20       | 10.36         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3  | 2        | 10.36         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H   | 20       | 10.36         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H   | 13       | 10.36         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H   | 13       | 10.36         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1 | 3        | 10.36         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2 | 3        | 10.36         |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H   | 8        | 10.36         |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 2        | 10.36         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA  | 13       | 10.36         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA  | 16       | 10.36         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA  | 4        | 10.36         |
| (1,4611) | 1:A:26:CYS:H   | 1:A:30:PRO:HA  | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1 | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2 | 5        | 10.36         |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3 | 5        | 10.36         |
| (1,4494) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HB3 | 20       | 10.36         |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD2 | 19       | 10.36         |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD3 | 19       | 10.36         |
| (1,4184) | 1:A:22:GLN:HG2 | 1:A:28:SER:HB2 | 10       | 10.36         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 7        | 10.36         |
| (1,3555) | 1:A:17:GLY:H   | 1:A:21:SER:HG  | 16       | 10.36         |
| (1,3535) | 1:A:16:GLY:HA3 | 1:A:25:TYR:HB3 | 20       | 10.36         |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2 | 14       | 10.36         |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2 | 14       | 10.36         |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA  | 10       | 10.36         |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA  | 10       | 10.36         |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 17       | 10.36         |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 17       | 10.36         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2 | 9        | 10.36         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2 | 9        | 10.36         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3 | 9        | 10.36         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3 | 9        | 10.36         |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG  | 16       | 10.36         |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 6        | 10.36         |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 6        | 10.36         |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1 | 3        | 10.36         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2 | 3        | 10.36         |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3 | 3        | 10.36         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 7        | 10.36         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 7        | 10.36         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD1 | 13       | 10.36         |
| (1,3080) | 1:A:12:GLY:HA3 | 1:A:32:TYR:HD2 | 13       | 10.36         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 8        | 10.36         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 8        | 10.36         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD1 | 9        | 10.36         |
| (1,3035) | 1:A:12:GLY:H   | 1:A:32:TYR:HD2 | 9        | 10.36         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 11       | 10.36         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG  | 9        | 10.36         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2 | 8        | 10.36         |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3 | 8        | 10.36         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H   | 4        | 10.36         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2 | 3        | 10.36         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3 | 3        | 10.36         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2 | 4        | 10.36         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3 | 4        | 10.36         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H   | 9        | 10.36         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H   | 20       | 10.36         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 4        | 10.36         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 6        | 10.36         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H   | 20       | 10.36         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 6        | 10.36         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 6        | 10.36         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H   | 10       | 10.36         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H   | 2        | 10.36         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 13       | 10.36         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 15       | 10.36         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3 | 11       | 10.36         |
| (1,2034) | 1:A:8:GLY:H    | 1:A:17:GLY:H   | 14       | 10.36         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 3        | 10.36         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 3        | 10.36         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 15       | 10.36         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 15       | 10.36         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 15       | 10.36         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 15       | 10.36         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 15       | 10.36         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 15       | 10.36         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2 | 18       | 10.36         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3 | 18       | 10.36         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB2 | 20       | 10.36         |
| (1,1878) | 1:A:6:GLN:HE22  | 1:A:15:ARG:HB3 | 20       | 10.36         |
| (1,1649) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HG2 | 13       | 10.36         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE1 | 18       | 10.36         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE2 | 18       | 10.36         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB2 | 13       | 10.36         |
| (1,1429) | 1:A:5:GLY:H     | 1:A:22:GLN:HB3 | 13       | 10.36         |
| (1,1366) | 1:A:4:ASN:HD22  | 1:A:27:GLY:H   | 8        | 10.36         |
| (1,1360) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HA  | 14       | 10.36         |
| (1,1352) | 1:A:4:ASN:HD22  | 1:A:21:SER:H   | 3        | 10.36         |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB2  | 1        | 10.36         |
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB3  | 1        | 10.36         |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H   | 17       | 10.36         |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2 | 17       | 10.36         |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3 | 17       | 10.36         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H   | 14       | 10.36         |
| (1,980)  | 1:A:3:PRO:HD2   | 1:A:27:GLY:H   | 10       | 10.35         |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 5        | 10.35         |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 5        | 10.35         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 19       | 10.35         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H    | 6        | 10.35         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3  | 3        | 10.35         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1 | 4        | 10.35         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2 | 4        | 10.35         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 7        | 10.35         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 11       | 10.35         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA  | 17       | 10.35         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 2        | 10.35         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 1        | 10.35         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 1        | 10.35         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 1        | 10.35         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 1        | 10.35         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 3        | 10.35         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 3        | 10.35         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 18       | 10.35         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 4        | 10.35         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 4        | 10.35         |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 2        | 10.35         |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 11       | 10.35         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 7        | 10.35         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 7        | 10.35         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 7        | 10.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3735) | 1:A:18:LEU:HG  | 1:A:23:TYR:HB2  | 17       | 10.35         |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 13       | 10.35         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1  | 11       | 10.35         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2  | 11       | 10.35         |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3  | 2        | 10.35         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1  | 8        | 10.35         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2  | 8        | 10.35         |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3  | 8        | 10.35         |
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H    | 7        | 10.35         |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 18       | 10.35         |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 19       | 10.35         |
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3  | 19       | 10.35         |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3  | 19       | 10.35         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 16       | 10.35         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 16       | 10.35         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 20       | 10.35         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 20       | 10.35         |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 20       | 10.35         |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 20       | 10.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ1  | 20       | 10.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ2  | 20       | 10.35         |
| (1,3253) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HZ3  | 20       | 10.35         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 17       | 10.35         |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 17       | 10.35         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2  | 5        | 10.35         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 5        | 10.35         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 6        | 10.35         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 11       | 10.35         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 18       | 10.35         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 19       | 10.35         |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 14       | 10.35         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 5        | 10.35         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 8        | 10.35         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 15       | 10.35         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 3        | 10.35         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 3        | 10.35         |
| (1,2419) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HA   | 17       | 10.35         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 4        | 10.35         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 4        | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 10       | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 10       | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 10       | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 10       | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 10       | 10.35         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 10       | 10.35         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 11       | 10.35         |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 19       | 10.35         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB2  | 1        | 10.35         |
| (1,1546) | 1:A:6:GLN:H    | 1:A:35:HIS:HB3  | 1        | 10.35         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 20       | 10.35         |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 17       | 10.35         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 5        | 10.35         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 16       | 10.35         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 19       | 10.35         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 19       | 10.35         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 13       | 10.35         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 18       | 10.35         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 3        | 10.35         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 20       | 10.35         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 13       | 10.35         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 13       | 10.35         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 5        | 10.34         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 12       | 10.34         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 12       | 10.34         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 20       | 10.34         |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 15       | 10.34         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 8        | 10.34         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 8        | 10.34         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 6        | 10.34         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2  | 6        | 10.34         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1  | 6        | 10.34         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2  | 6        | 10.34         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 7        | 10.34         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2  | 7        | 10.34         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1  | 7        | 10.34         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2  | 7        | 10.34         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1  | 6        | 10.34         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2  | 6        | 10.34         |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 1        | 10.34         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 15       | 10.34         |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1 | 11       | 10.34         |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1 | 11       | 10.34         |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 9        | 10.34         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA  | 18       | 10.34         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA  | 19       | 10.34         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA  | 20       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 17       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 17       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 17       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 17       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 17       | 10.34         |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 17       | 10.34         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 14       | 10.34         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 14       | 10.34         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 5        | 10.34         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 5        | 10.34         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA  | 7        | 10.34         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA  | 7        | 10.34         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 3        | 10.34         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 3        | 10.34         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 3        | 10.34         |
| (1,4492) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB2 | 15       | 10.34         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 16       | 10.34         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 16       | 10.34         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 3        | 10.34         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 3        | 10.34         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 11       | 10.34         |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 8        | 10.34         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 13       | 10.34         |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1 | 4        | 10.34         |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 3        | 10.34         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 7        | 10.34         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 20       | 10.34         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 6        | 10.34         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H   | 15       | 10.34         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2 | 10       | 10.34         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2 | 10       | 10.34         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3 | 10       | 10.34         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3 | 10       | 10.34         |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG  | 17       | 10.34         |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG  | 17       | 10.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3348) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HA   | 15       | 10.34         |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H    | 2        | 10.34         |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H    | 4        | 10.34         |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 16       | 10.34         |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA   | 17       | 10.34         |
| (1,3107) | 1:A:13:GLY:H   | 1:A:23:TYR:H    | 17       | 10.34         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 16       | 10.34         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 12       | 10.34         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 9        | 10.34         |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 9        | 10.34         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 2        | 10.34         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 2        | 10.34         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 10       | 10.34         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 10       | 10.34         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG2  | 9        | 10.34         |
| (1,2841) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HG3  | 9        | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 18       | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 18       | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 19       | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 19       | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 20       | 10.34         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 20       | 10.34         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 10       | 10.34         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 6        | 10.34         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 6        | 10.34         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 12       | 10.34         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 1        | 10.34         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 4        | 10.34         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 4        | 10.34         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 3        | 10.34         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 3        | 10.34         |
| (1,2470) | 1:A:10:GLY:H   | 1:A:23:TYR:H    | 17       | 10.34         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 2        | 10.34         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 11       | 10.34         |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 3        | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 15       | 10.34         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 15       | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 15       | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 15       | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 15       | 10.34         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 15       | 10.34         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 12       | 10.34         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 14       | 10.34         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 10       | 10.34         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 1        | 10.34         |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 16       | 10.34         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 16       | 10.34         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 18       | 10.34         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 18       | 10.34         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 18       | 10.34         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 19       | 10.34         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 19       | 10.34         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 14       | 10.34         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 16       | 10.34         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 10       | 10.34         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 4        | 10.34         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 8        | 10.34         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 8        | 10.34         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 18       | 10.34         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 18       | 10.34         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 8        | 10.34         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 9        | 10.33         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 9        | 10.33         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 13       | 10.33         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 2        | 10.33         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 2        | 10.33         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 2        | 10.33         |
| (1,4658) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HA   | 4        | 10.33         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 2        | 10.33         |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2  | 7        | 10.33         |
| (1,4592) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HB2  | 9        | 10.33         |
| (1,4592) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HB2  | 9        | 10.33         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG2  | 11       | 10.33         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG3  | 11       | 10.33         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG2  | 11       | 10.33         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG3  | 11       | 10.33         |
| (1,4564) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HA   | 13       | 10.33         |
| (1,4564) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HA   | 13       | 10.33         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 10.33         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 10.33         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 10.33         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 6        | 10.33         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 6        | 10.33         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 18       | 10.33         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 18       | 10.33         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 14       | 10.33         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 4        | 10.33         |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 4        | 10.33         |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 9        | 10.33         |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 13       | 10.33         |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 8        | 10.33         |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 8        | 10.33         |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 14       | 10.33         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 2        | 10.33         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 2        | 10.33         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 2        | 10.33         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 5        | 10.33         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 5        | 10.33         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 5        | 10.33         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1 | 16       | 10.33         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2 | 16       | 10.33         |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 12       | 10.33         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 8        | 10.33         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 12       | 10.33         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 18       | 10.33         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 18       | 10.33         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H   | 7        | 10.33         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H   | 7        | 10.33         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 11       | 10.33         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 11       | 10.33         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H   | 15       | 10.33         |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 10       | 10.33         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3 | 12       | 10.33         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD1 | 2        | 10.33         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD2 | 2        | 10.33         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1 | 13       | 10.33         |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2 | 13       | 10.33         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 1        | 10.33         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 1        | 10.33         |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H   | 2        | 10.33         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 5        | 10.33         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 17       | 10.33         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 5        | 10.33         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 5        | 10.33         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 16       | 10.33         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 12       | 10.33         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2  | 16       | 10.33         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3  | 16       | 10.33         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 8        | 10.33         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 10       | 10.33         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 10       | 10.33         |
| (1,2641) | 1:A:11:TRP:HB2 | 1:A:16:GLY:H    | 14       | 10.33         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 2        | 10.33         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 3        | 10.33         |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 10       | 10.33         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 9        | 10.33         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 4        | 10.33         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 4        | 10.33         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 7        | 10.33         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 1        | 10.33         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 4        | 10.33         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 5        | 10.33         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 1        | 10.33         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 2        | 10.33         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 10       | 10.33         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 10       | 10.33         |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 10       | 10.33         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 8        | 10.33         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 20       | 10.33         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 3        | 10.33         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 4        | 10.33         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 6        | 10.33         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 2        | 10.33         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 5        | 10.33         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 4        | 10.33         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 4        | 10.33         |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 17       | 10.33         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 19       | 10.33         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 18       | 10.33         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 12       | 10.33         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 12       | 10.33         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 20       | 10.33         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1253) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HB3   | 20       | 10.33         |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE21 | 3        | 10.33         |
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE22 | 3        | 10.33         |
| (1,1213) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HA   | 1        | 10.33         |
| (1,1208) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HB2  | 19       | 10.33         |
| (1,1186) | 1:A:4:ASN:HB3   | 1:A:10:GLY:H    | 17       | 10.33         |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2   | 14       | 10.33         |
| (1,1074) | 1:A:4:ASN:H     | 1:A:20:CYS:H    | 4        | 10.33         |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H    | 17       | 10.33         |
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H     | 5        | 10.32         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H    | 4        | 10.32         |
| (1,567)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG3  | 16       | 10.32         |
| (1,567)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG3  | 16       | 10.32         |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1  | 9        | 10.32         |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 13       | 10.32         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 3        | 10.32         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 4        | 10.32         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 5        | 10.32         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 6        | 10.32         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 8        | 10.32         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 8        | 10.32         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 8        | 10.32         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 8        | 10.32         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 6        | 10.32         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 1        | 10.32         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 1        | 10.32         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 1        | 10.32         |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 16       | 10.32         |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 16       | 10.32         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1  | 9        | 10.32         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2  | 9        | 10.32         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3  | 9        | 10.32         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 18       | 10.32         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 19       | 10.32         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 8        | 10.32         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 9        | 10.32         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 16       | 10.32         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 5        | 10.32         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 12       | 10.32         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 13       | 10.32         |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 13       | 10.32         |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 15       | 10.32         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3415) | 1:A:15:ARG:HD3 | 1:A:32:TYR:H    | 15       | 10.32         |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 4        | 10.32         |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 4        | 10.32         |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3  | 5        | 10.32         |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3  | 5        | 10.32         |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA   | 16       | 10.32         |
| (1,3337) | 1:A:15:ARG:HB3 | 1:A:25:TYR:H    | 16       | 10.32         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 2        | 10.32         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 2        | 10.32         |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 10       | 10.32         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 6        | 10.32         |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 13       | 10.32         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2  | 11       | 10.32         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 11       | 10.32         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2  | 15       | 10.32         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 15       | 10.32         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 18       | 10.32         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 19       | 10.32         |
| (1,2993) | 1:A:12:GLY:H   | 1:A:18:LEU:HG   | 20       | 10.32         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 10       | 10.32         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 16       | 10.32         |
| (1,2806) | 1:A:11:TRP:HE3 | 1:A:27:GLY:H    | 7        | 10.32         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 20       | 10.32         |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 14       | 10.32         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 4        | 10.32         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 5        | 10.32         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 6        | 10.32         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 11       | 10.32         |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 8        | 10.32         |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 8        | 10.32         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 9        | 10.32         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 16       | 10.32         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 20       | 10.32         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 4        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 2        | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 13       | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 13       | 10.32         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 13       | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 13       | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 13       | 10.32         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 13       | 10.32         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 6        | 10.32         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 7        | 10.32         |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 7        | 10.32         |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 16       | 10.32         |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 16       | 10.32         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 6        | 10.32         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 6        | 10.32         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 6        | 10.32         |
| (1,1934) | 1:A:7:CYS:H    | 1:A:17:GLY:H    | 14       | 10.32         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 12       | 10.32         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 12       | 10.32         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 18       | 10.32         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 19       | 10.32         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 13       | 10.32         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 5        | 10.32         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 5        | 10.32         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 10       | 10.32         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 9        | 10.32         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 9        | 10.32         |
| (1,1464) | 1:A:5:GLY:HA2  | 1:A:33:CYS:H    | 16       | 10.32         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 7        | 10.32         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 7        | 10.32         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 6        | 10.32         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 1        | 10.32         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 15       | 10.32         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 20       | 10.32         |
| (1,1208) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HB2  | 7        | 10.32         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 11       | 10.32         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 3        | 10.32         |
| (1,1068) | 1:A:4:ASN:H    | 1:A:18:LEU:H    | 9        | 10.32         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 15       | 10.32         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 15       | 10.32         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 1        | 10.31         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 12       | 10.31         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 15       | 10.31         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 1        | 10.31         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 1        | 10.31         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 18       | 10.31         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,772)  | 1:A:3:PRO:HB2   | 1:A:8:GLY:H     | 10       | 10.31         |
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 9        | 10.31         |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 9        | 10.31         |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1  | 17       | 10.31         |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1  | 17       | 10.31         |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 8        | 10.31         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1  | 14       | 10.31         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2  | 14       | 10.31         |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3  | 14       | 10.31         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3  | 10       | 10.31         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3  | 10       | 10.31         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 15       | 10.31         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 15       | 10.31         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 15       | 10.31         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 15       | 10.31         |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1  | 20       | 10.31         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 5        | 10.31         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 5        | 10.31         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 6        | 10.31         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 9        | 10.31         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 19       | 10.31         |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 9        | 10.31         |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 9        | 10.31         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 16       | 10.31         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 16       | 10.31         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 16       | 10.31         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 12       | 10.31         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 12       | 10.31         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 12       | 10.31         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1  | 5        | 10.31         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2  | 5        | 10.31         |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 14       | 10.31         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H    | 12       | 10.31         |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 7        | 10.31         |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 7        | 10.31         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 3        | 10.31         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 4        | 10.31         |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 16       | 10.31         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 10       | 10.31         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 17       | 10.31         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 17       | 10.31         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 12       | 10.31         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3  | 12       | 10.31         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB2  | 9        | 10.31         |
| (1,2903) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HB3  | 9        | 10.31         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 11       | 10.31         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 11       | 10.31         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H    | 8        | 10.31         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 12       | 10.31         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 18       | 10.31         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 19       | 10.31         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 7        | 10.31         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 7        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 1        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 1        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 1        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 1        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 1        | 10.31         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 1        | 10.31         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 11       | 10.31         |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 5        | 10.31         |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 5        | 10.31         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 15       | 10.31         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 16       | 10.31         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 16       | 10.31         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 15       | 10.31         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 18       | 10.31         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 18       | 10.31         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 7        | 10.31         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 7        | 10.31         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 13       | 10.31         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 13       | 10.31         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 11       | 10.31         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 6        | 10.31         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 1        | 10.31         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 13       | 10.31         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 11       | 10.3          |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 8        | 10.3          |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 8        | 10.3          |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 7        | 10.3          |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H    | 3        | 10.3          |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 1        | 10.3          |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 12       | 10.3          |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 17       | 10.3          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 17       | 10.3          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 17       | 10.3          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 17       | 10.3          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2  | 1        | 10.3          |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 10       | 10.3          |
| (1,4590) | 1:A:25:TYR:HE1  | 1:A:31:LYS:H    | 10       | 10.3          |
| (1,4590) | 1:A:25:TYR:HE2  | 1:A:31:LYS:H    | 10       | 10.3          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 11       | 10.3          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 19       | 10.3          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 19       | 10.3          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H    | 9        | 10.3          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 3        | 10.3          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 3        | 10.3          |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2  | 15       | 10.3          |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2  | 15       | 10.3          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 12       | 10.3          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 12       | 10.3          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 12       | 10.3          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 12       | 10.3          |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 17       | 10.3          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1  | 2        | 10.3          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2  | 2        | 10.3          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1  | 4        | 10.3          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2  | 4        | 10.3          |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 7        | 10.3          |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 7        | 10.3          |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 7        | 10.3          |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 18       | 10.3          |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 19       | 10.3          |
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3  | 9        | 10.3          |
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3  | 18       | 10.3          |
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3  | 19       | 10.3          |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 15       | 10.3          |
| (1,2385) | 1:A:9:PRO:HG3   | 1:A:21:SER:HB2  | 17       | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD11 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD12 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD13 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD21 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD22 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD23 | 5        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD11 | 6        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2   | 1:A:18:LEU:HD12 | 6        | 10.3          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 6        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 6        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 6        | 10.3          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 6        | 10.3          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 4        | 10.3          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 4        | 10.3          |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 1        | 10.3          |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 3        | 10.3          |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 4        | 10.3          |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 10       | 10.3          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 6        | 10.3          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 6        | 10.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 14       | 10.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 14       | 10.3          |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 14       | 10.3          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 19       | 10.3          |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 19       | 10.3          |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 7        | 10.3          |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H    | 18       | 10.3          |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 7        | 10.3          |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 19       | 10.3          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 16       | 10.3          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 16       | 10.3          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 15       | 10.3          |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 13       | 10.3          |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 15       | 10.3          |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 15       | 10.29         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 15       | 10.29         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 4        | 10.29         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 4        | 10.29         |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 17       | 10.29         |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 17       | 10.29         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 16       | 10.29         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1  | 16       | 10.29         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2  | 16       | 10.29         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3  | 16       | 10.29         |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA   | 14       | 10.29         |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA   | 14       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG2  | 19       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG3  | 19       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG2  | 19       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG3  | 19       | 10.29         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 20       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 20       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 20       | 10.29         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 20       | 10.29         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 17       | 10.29         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 17       | 10.29         |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 9        | 10.29         |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 11       | 10.29         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 2        | 10.29         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 4        | 10.29         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 4        | 10.29         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 4        | 10.29         |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 13       | 10.29         |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 13       | 10.29         |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 13       | 10.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD1 | 14       | 10.29         |
| (1,3567) | 1:A:17:GLY:H    | 1:A:25:TYR:HD2 | 14       | 10.29         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 3        | 10.29         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 3        | 10.29         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2 | 10       | 10.29         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA  | 4        | 10.29         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA  | 2        | 10.29         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA  | 2        | 10.29         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA  | 13       | 10.29         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA  | 13       | 10.29         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 11       | 10.29         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG  | 11       | 10.29         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1 | 11       | 10.29         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2 | 11       | 10.29         |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1 | 6        | 10.29         |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2 | 6        | 10.29         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3 | 11       | 10.29         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3 | 8        | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 2        | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 2        | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 4        | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 4        | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2 | 13       | 10.29         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3 | 13       | 10.29         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA  | 8        | 10.29         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA  | 12       | 10.29         |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H   | 8        | 10.29         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H    | 14       | 10.29         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 7        | 10.29         |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 7        | 10.29         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 8        | 10.29         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 5        | 10.29         |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 6        | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 11       | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 11       | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 11       | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 11       | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 11       | 10.29         |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 11       | 10.29         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 6        | 10.29         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 6        | 10.29         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 12       | 10.29         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 12       | 10.29         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 12       | 10.29         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2  | 17       | 10.29         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 8        | 10.29         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 7        | 10.29         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 8        | 10.29         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 8        | 10.29         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 5        | 10.29         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 10       | 10.29         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 10       | 10.29         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 10       | 10.29         |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 13       | 10.29         |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 13       | 10.29         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 11       | 10.29         |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 11       | 10.29         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 9        | 10.29         |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 9        | 10.29         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 1        | 10.29         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 13       | 10.29         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 11       | 10.29         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 11       | 10.29         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 9        | 10.28         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 16       | 10.28         |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H    | 9        | 10.28         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 8        | 10.28         |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2  | 14       | 10.28         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG2  | 18       | 10.28         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 18       | 10.28         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 18       | 10.28         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 18       | 10.28         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA   | 19       | 10.28         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA   | 19       | 10.28         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1  | 5        | 10.28         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2  | 5        | 10.28         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3  | 5        | 10.28         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 7        | 10.28         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 7        | 10.28         |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 17       | 10.28         |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 17       | 10.28         |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 16       | 10.28         |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 16       | 10.28         |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 8        | 10.28         |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 8        | 10.28         |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 16       | 10.28         |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 1        | 10.28         |
| (1,3761) | 1:A:18:LEU:HG   | 1:A:35:HIS:HE1  | 1        | 10.28         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 11       | 10.28         |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 11       | 10.28         |
| (1,3484) | 1:A:16:GLY:H    | 1:A:32:TYR:HA   | 2        | 10.28         |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 3        | 10.28         |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 12       | 10.28         |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 12       | 10.28         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 8        | 10.28         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 8        | 10.28         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 8        | 10.28         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 8        | 10.28         |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 5        | 10.28         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 18       | 10.28         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 19       | 10.28         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1  | 7        | 10.28         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2  | 7        | 10.28         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD1  | 17       | 10.28         |
| (1,3080) | 1:A:12:GLY:HA3  | 1:A:32:TYR:HD2  | 17       | 10.28         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 8        | 10.28         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 8        | 10.28         |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 7        | 10.28         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 14       | 10.28         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 15       | 10.28         |
| (1,2793) | 1:A:11:TRP:HE3  | 1:A:20:CYS:H    | 18       | 10.28         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 19       | 10.28         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 20       | 10.28         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 13       | 10.28         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 13       | 10.28         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 9        | 10.28         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3 | 8        | 10.28         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3 | 16       | 10.28         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H   | 3        | 10.28         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H   | 4        | 10.28         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 5        | 10.28         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 5        | 10.28         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H   | 13       | 10.28         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG  | 14       | 10.28         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 11       | 10.28         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 12       | 10.28         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 12       | 10.28         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1 | 3        | 10.28         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2 | 3        | 10.28         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3 | 2        | 10.28         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3 | 5        | 10.28         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 14       | 10.28         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 14       | 10.28         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 14       | 10.28         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 14       | 10.28         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 14       | 10.28         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 14       | 10.28         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 9        | 10.28         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 2        | 10.28         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 10       | 10.28         |
| (1,1366) | 1:A:4:ASN:HD22 | 1:A:27:GLY:H   | 19       | 10.28         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2  | 15       | 10.28         |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3  | 15       | 10.28         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 10       | 10.28         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 18       | 10.28         |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 6        | 10.28         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3 | 12       | 10.28         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 20       | 10.27         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 20       | 10.27         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H   | 13       | 10.27         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H   | 13       | 10.27         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 20       | 10.27         |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 20       | 10.27         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2 | 20       | 10.27         |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3 | 20       | 10.27         |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 2        | 10.27         |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 2        | 10.27         |
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2  | 1        | 10.27         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 1        | 10.27         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 15       | 10.27         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3  | 6        | 10.27         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 12       | 10.27         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 1        | 10.27         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 1        | 10.27         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 1        | 10.27         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 1        | 10.27         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 20       | 10.27         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 20       | 10.27         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 20       | 10.27         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 20       | 10.27         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 1        | 10.27         |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 2        | 10.27         |
| (1,4658) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HA  | 14       | 10.27         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA  | 13       | 10.27         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA  | 15       | 10.27         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 12       | 10.27         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 12       | 10.27         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 18       | 10.27         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 18       | 10.27         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 20       | 10.27         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 20       | 10.27         |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1 | 3        | 10.27         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 3        | 10.27         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 3        | 10.27         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 4        | 10.27         |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 4        | 10.27         |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 7        | 10.27         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 4        | 10.27         |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 7        | 10.27         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1 | 1        | 10.27         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2 | 1        | 10.27         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 8        | 10.27         |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2 | 14       | 10.27         |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3 | 14       | 10.27         |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 9        | 10.27         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2 | 9        | 10.27         |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE1 | 12       | 10.27         |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2 | 12       | 10.27         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1 | 14       | 10.27         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2 | 14       | 10.27         |
| (1,3484) | 1:A:16:GLY:H   | 1:A:32:TYR:HA  | 17       | 10.27         |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3 | 8        | 10.27         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 11       | 10.27         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 11       | 10.27         |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG  | 7        | 10.27         |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG  | 12       | 10.27         |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA  | 4        | 10.27         |
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 19       | 10.27         |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 3        | 10.27         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2 | 9        | 10.27         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3 | 9        | 10.27         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 7        | 10.27         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 18       | 10.27         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 19       | 10.27         |
| (1,2901) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:H   | 20       | 10.27         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3 | 11       | 10.27         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 7        | 10.27         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 9        | 10.27         |
| (1,2793) | 1:A:11:TRP:HE3 | 1:A:20:CYS:H   | 16       | 10.27         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H   | 20       | 10.27         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3 | 1        | 10.27         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 17       | 10.27         |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 17       | 10.27         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 5        | 10.27         |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 5        | 10.27         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 5        | 10.27         |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 5        | 10.27         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 1        | 10.27         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H   | 4        | 10.27         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H   | 13       | 10.27         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 16       | 10.27         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 17       | 10.27         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 3        | 10.27         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 3        | 10.27         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 19       | 10.27         |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 2        | 10.27         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H   | 2        | 10.27         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1075) | 1:A:4:ASN:H     | 1:A:20:CYS:HB3  | 9        | 10.27         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2   | 4        | 10.27         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3   | 4        | 10.27         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H    | 8        | 10.26         |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG   | 6        | 10.26         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA   | 12       | 10.26         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2  | 9        | 10.26         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 9        | 10.26         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 9        | 10.26         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 9        | 10.26         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 9        | 10.26         |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 9        | 10.26         |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 9        | 10.26         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 6        | 10.26         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 6        | 10.26         |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1  | 7        | 10.26         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 6        | 10.26         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 7        | 10.26         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 14       | 10.26         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 14       | 10.26         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 11       | 10.26         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 20       | 10.26         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 1        | 10.26         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 11       | 10.26         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 2        | 10.26         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 10       | 10.26         |
| (1,3491) | 1:A:16:GLY:H    | 1:A:35:HIS:HD2  | 2        | 10.26         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 9        | 10.26         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 12       | 10.26         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 12       | 10.26         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 4        | 10.26         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 4        | 10.26         |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA   | 2        | 10.26         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 12       | 10.26         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 12       | 10.26         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 7        | 10.26         |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 7        | 10.26         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA   | 20       | 10.26         |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 13       | 10.26         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 20       | 10.26         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 20       | 10.26         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H    | 16       | 10.26         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 18       | 10.26         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 19       | 10.26         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 7        | 10.26         |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 6        | 10.26         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 6        | 10.26         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 8        | 10.26         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 9        | 10.26         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 12       | 10.26         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 1        | 10.26         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 11       | 10.26         |
| (1,2333) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HB3  | 17       | 10.26         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 13       | 10.26         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 16       | 10.26         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 16       | 10.26         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 12       | 10.26         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 12       | 10.26         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 12       | 10.26         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 14       | 10.26         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 13       | 10.26         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 13       | 10.26         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 15       | 10.26         |
| (1,1186) | 1:A:4:ASN:HB3  | 1:A:10:GLY:H    | 13       | 10.26         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 16       | 10.26         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 3        | 10.26         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 3        | 10.26         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 20       | 10.25         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 20       | 10.25         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 20       | 10.25         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 20       | 10.25         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 9        | 10.25         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 9        | 10.25         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 9        | 10.25         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 9        | 10.25         |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 14       | 10.25         |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 14       | 10.25         |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 2        | 10.25         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 1        | 10.25         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 7        | 10.25         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 9        | 10.25         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1  | 7        | 10.25         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2  | 7        | 10.25         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3  | 7        | 10.25         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 16       | 10.25         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 18       | 10.25         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 19       | 10.25         |
| (1,4611) | 1:A:26:CYS:H    | 1:A:30:PRO:HA  | 20       | 10.25         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 17       | 10.25         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 17       | 10.25         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 17       | 10.25         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 17       | 10.25         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 8        | 10.25         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 10       | 10.25         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 11       | 10.25         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 11       | 10.25         |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 5        | 10.25         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 11       | 10.25         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 11       | 10.25         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 11       | 10.25         |
| (1,3555) | 1:A:17:GLY:H    | 1:A:21:SER:HG  | 14       | 10.25         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG  | 6        | 10.25         |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 17       | 10.25         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 20       | 10.25         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 20       | 10.25         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2 | 18       | 10.25         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2 | 18       | 10.25         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3 | 18       | 10.25         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3 | 18       | 10.25         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 10.25         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 10.25         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 10.25         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA  | 16       | 10.25         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H   | 3        | 10.25         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H   | 1        | 10.25         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H   | 15       | 10.25         |
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3 | 15       | 10.25         |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2 | 4        | 10.25         |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3 | 4        | 10.25         |
| (1,2644) | 1:A:11:TRP:HB2  | 1:A:18:LEU:H   | 2        | 10.25         |
| (1,2644) | 1:A:11:TRP:HB2  | 1:A:18:LEU:H   | 10       | 10.25         |
| (1,2644) | 1:A:11:TRP:HB2  | 1:A:18:LEU:H   | 16       | 10.25         |
| (1,2599) | 1:A:11:TRP:H    | 1:A:27:GLY:H   | 20       | 10.25         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H   | 13       | 10.25         |
| (1,2387) | 1:A:9:PRO:HG3   | 1:A:22:GLN:H   | 6        | 10.25         |
| (1,2323) | 1:A:9:PRO:HG2   | 1:A:22:GLN:H   | 3        | 10.25         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 10       | 10.25         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 14       | 10.25         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 4        | 10.25         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 18       | 10.25         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 18       | 10.25         |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2  | 11       | 10.25         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 2        | 10.25         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 2        | 10.25         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 7        | 10.25         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 7        | 10.25         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 11       | 10.25         |
| (1,1352) | 1:A:4:ASN:HD22 | 1:A:21:SER:H    | 20       | 10.25         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 6        | 10.25         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 8        | 10.25         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 14       | 10.25         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 4        | 10.25         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 4        | 10.25         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 18       | 10.24         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 18       | 10.24         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 3        | 10.24         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 3        | 10.24         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 17       | 10.24         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 17       | 10.24         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 12       | 10.24         |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 10       | 10.24         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 15       | 10.24         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 15       | 10.24         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 12       | 10.24         |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2  | 12       | 10.24         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1  | 12       | 10.24         |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2  | 12       | 10.24         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG2  | 16       | 10.24         |
| (1,4566) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HG3  | 16       | 10.24         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG2  | 16       | 10.24         |
| (1,4566) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HG3  | 16       | 10.24         |
| (1,4564) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HA   | 10       | 10.24         |
| (1,4564) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HA   | 10       | 10.24         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 10       | 10.24         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 10       | 10.24         |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2  | 19       | 10.24         |
| (1,4438) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HB2  | 19       | 10.24         |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H    | 9        | 10.24         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 9        | 10.24         |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 18       | 10.24         |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 18       | 10.24         |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1  | 3        | 10.24         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 10       | 10.24         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 10       | 10.24         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 13       | 10.24         |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 8        | 10.24         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 2        | 10.24         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 2        | 10.24         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 2        | 10.24         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1  | 2        | 10.24         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2  | 2        | 10.24         |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 13       | 10.24         |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 16       | 10.24         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 8        | 10.24         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 8        | 10.24         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 8        | 10.24         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 8        | 10.24         |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H    | 19       | 10.24         |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H    | 19       | 10.24         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 9        | 10.24         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 20       | 10.24         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 5        | 10.24         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 5        | 10.24         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 5        | 10.24         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 10       | 10.24         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 10       | 10.24         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 2        | 10.24         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 4        | 10.24         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 11       | 10.24         |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 14       | 10.24         |
| (1,2901) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:H    | 9        | 10.24         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 20       | 10.24         |
| (1,2703) | 1:A:11:TRP:HB3  | 1:A:27:GLY:HA3  | 11       | 10.24         |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 2        | 10.24         |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 2        | 10.24         |
| (1,2599) | 1:A:11:TRP:H    | 1:A:27:GLY:H    | 18       | 10.24         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 10       | 10.24         |
| (1,2551) | 1:A:10:GLY:HA3  | 1:A:25:TYR:H    | 14       | 10.24         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 14       | 10.24         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 14       | 10.24         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 14       | 10.24         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 14       | 10.24         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 14       | 10.24         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 14       | 10.24         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 14       | 10.24         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 2        | 10.24         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 6        | 10.24         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 10       | 10.24         |
| (1,2210) | 1:A:9:PRO:HB2  | 1:A:20:CYS:H    | 17       | 10.24         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 3        | 10.24         |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 6        | 10.24         |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 11       | 10.24         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 14       | 10.24         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 6        | 10.24         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 6        | 10.24         |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 6        | 10.24         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 4        | 10.24         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 4        | 10.24         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 4        | 10.24         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 11       | 10.24         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 11       | 10.24         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 11       | 10.24         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 20       | 10.24         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 6        | 10.24         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 13       | 10.24         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 2        | 10.24         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 2        | 10.24         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 8        | 10.23         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2  | 17       | 10.23         |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3  | 17       | 10.23         |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 14       | 10.23         |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H    | 10       | 10.23         |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H    | 10       | 10.23         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 11       | 10.23         |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 4        | 10.23         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 10       | 10.23         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 15       | 10.23         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 8        | 10.23         |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H    | 13       | 10.23         |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1  | 8        | 10.23         |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA   | 11       | 10.23         |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H    | 12       | 10.23         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 12       | 10.23         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 13       | 10.23         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 18       | 10.23         |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 18       | 10.23         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 13       | 10.23         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 7        | 10.23         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 7        | 10.23         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 7        | 10.23         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 7        | 10.23         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 7        | 10.23         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 7        | 10.23         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 18       | 10.23         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 5        | 10.23         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 5        | 10.23         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1  | 20       | 10.23         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2  | 20       | 10.23         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3  | 20       | 10.23         |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 10       | 10.23         |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 10       | 10.23         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 12       | 10.23         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 12       | 10.23         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 12       | 10.23         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 12       | 10.23         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 13       | 10.23         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 13       | 10.23         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 17       | 10.23         |
| (1,2993) | 1:A:12:GLY:H    | 1:A:18:LEU:HG   | 1        | 10.23         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 1        | 10.23         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 10       | 10.23         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 13       | 10.23         |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG2  | 1        | 10.23         |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG3  | 1        | 10.23         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 20       | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 7        | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 8        | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 9        | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 14       | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 16       | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 18       | 10.23         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 19       | 10.23         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H    | 7        | 10.23         |
| (1,2736) | 1:A:11:TRP:HD1  | 1:A:19:CYS:H    | 11       | 10.23         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 15       | 10.23         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 16       | 10.23         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 19       | 10.23         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 10       | 10.23         |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 10       | 10.23         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 4        | 10.23         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 6        | 10.23         |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 11       | 10.23         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 12       | 10.23         |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 3        | 10.23         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 5        | 10.23         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 12       | 10.23         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 12       | 10.23         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 3        | 10.23         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 2        | 10.23         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 5        | 10.23         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 6        | 10.23         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 6        | 10.23         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 6        | 10.23         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 6        | 10.23         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 8        | 10.23         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 9        | 10.23         |
| (1,1882) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HB2  | 20       | 10.23         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 13       | 10.23         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 13       | 10.23         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 13       | 10.23         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 13       | 10.23         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 15       | 10.23         |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 15       | 10.23         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 14       | 10.23         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 14       | 10.23         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 13       | 10.23         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 13       | 10.23         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 7        | 10.23         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 18       | 10.23         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 5        | 10.23         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 9        | 10.23         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 16       | 10.23         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 18       | 10.23         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 1        | 10.23         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 16       | 10.22         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 16       | 10.22         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2  | 15       | 10.22         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 15       | 10.22         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 8        | 10.22         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 8        | 10.22         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 8        | 10.22         |
| (1,4585) | 1:A:25:TYR:HE1  | 1:A:29:GLY:HA3 | 2        | 10.22         |
| (1,4585) | 1:A:25:TYR:HE2  | 1:A:29:GLY:HA3 | 2        | 10.22         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 5        | 10.22         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 5        | 10.22         |
| (1,4564) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HA  | 16       | 10.22         |
| (1,4564) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HA  | 16       | 10.22         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 5        | 10.22         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 5        | 10.22         |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 5        | 10.22         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 8        | 10.22         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 8        | 10.22         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 9        | 10.22         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 9        | 10.22         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 1        | 10.22         |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 8        | 10.22         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 2        | 10.22         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 2        | 10.22         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2 | 10       | 10.22         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3 | 10       | 10.22         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 15       | 10.22         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3 | 15       | 10.22         |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3 | 8        | 10.22         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 8        | 10.22         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 8        | 10.22         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 8        | 10.22         |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 7        | 10.22         |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 7        | 10.22         |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 4        | 10.22         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2 | 4        | 10.22         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3 | 4        | 10.22         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3 | 9        | 10.22         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 1        | 10.22         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 13       | 10.22         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2 | 15       | 10.22         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3 | 15       | 10.22         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA  | 18       | 10.22         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA  | 19       | 10.22         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 5        | 10.22         |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 18       | 10.22         |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 19       | 10.22         |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2  | 3        | 10.22         |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3  | 3        | 10.22         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 5        | 10.22         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 2        | 10.22         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 5        | 10.22         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 12       | 10.22         |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 12       | 10.22         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 13       | 10.22         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 13       | 10.22         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 19       | 10.22         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 19       | 10.22         |
| (1,2266) | 1:A:9:PRO:HB3  | 1:A:25:TYR:H    | 5        | 10.22         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 14       | 10.22         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 8        | 10.22         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 8        | 10.22         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 8        | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 16       | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 16       | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 18       | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 18       | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 19       | 10.22         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 19       | 10.22         |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 6        | 10.22         |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 6        | 10.22         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 3        | 10.22         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 3        | 10.22         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 3        | 10.22         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 3        | 10.22         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 9        | 10.22         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 9        | 10.22         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 2        | 10.22         |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 17       | 10.22         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 4        | 10.22         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 4        | 10.22         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 14       | 10.22         |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 14       | 10.22         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 4        | 10.22         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 4        | 10.22         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 2        | 10.22         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 5        | 10.22         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 8        | 10.22         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3 | 4        | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 5        | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 5        | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 6        | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 6        | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 10       | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 10       | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 14       | 10.22         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 14       | 10.22         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 13       | 10.22         |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 13       | 10.22         |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 17       | 10.21         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H   | 18       | 10.21         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H   | 18       | 10.21         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 13       | 10.21         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 13       | 10.21         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 20       | 10.21         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 20       | 10.21         |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2 | 14       | 10.21         |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1 | 17       | 10.21         |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2 | 17       | 10.21         |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG  | 3        | 10.21         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3  | 5        | 10.21         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3  | 13       | 10.21         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H   | 7        | 10.21         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H   | 7        | 10.21         |
| (1,565)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HG2 | 15       | 10.21         |
| (1,565)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HG2 | 15       | 10.21         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1 | 14       | 10.21         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2 | 14       | 10.21         |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 2        | 10.21         |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H   | 7        | 10.21         |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA  | 8        | 10.21         |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA  | 8        | 10.21         |
| (1,4510) | 1:A:25:TYR:H   | 1:A:29:GLY:HA2 | 3        | 10.21         |
| (1,4449) | 1:A:24:GLY:H   | 1:A:30:PRO:HB2 | 9        | 10.21         |
| (1,4449) | 1:A:24:GLY:H   | 1:A:30:PRO:HB3 | 9        | 10.21         |
| (1,4447) | 1:A:24:GLY:H   | 1:A:29:GLY:H   | 5        | 10.21         |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2 | 18       | 10.21         |
| (1,4438) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HB2 | 18       | 10.21         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 10       | 10.21         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 10       | 10.21         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 11       | 10.21         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 11       | 10.21         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 18       | 10.21         |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA   | 9        | 10.21         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 2        | 10.21         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 18       | 10.21         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 18       | 10.21         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 18       | 10.21         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 18       | 10.21         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 18       | 10.21         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 18       | 10.21         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1  | 20       | 10.21         |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2  | 20       | 10.21         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 14       | 10.21         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 14       | 10.21         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 13       | 10.21         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 17       | 10.21         |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3  | 9        | 10.21         |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 8        | 10.21         |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 8        | 10.21         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 15       | 10.21         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2  | 1        | 10.21         |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3  | 1        | 10.21         |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 8        | 10.21         |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 8        | 10.21         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2  | 2        | 10.21         |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3  | 2        | 10.21         |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 14       | 10.21         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 15       | 10.21         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 15       | 10.21         |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG   | 8        | 10.21         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 1        | 10.21         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 1        | 10.21         |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 1        | 10.21         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA   | 9        | 10.21         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 11       | 10.21         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 7        | 10.21         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 8        | 10.21         |
| (1,2742) | 1:A:11:TRP:HD1  | 1:A:22:GLN:H    | 7        | 10.21         |
| (1,2742) | 1:A:11:TRP:HD1  | 1:A:22:GLN:H    | 8        | 10.21         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 20       | 10.21         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 7        | 10.21         |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 3        | 10.21         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 4        | 10.21         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 10       | 10.21         |
| (1,2358) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HD2  | 1        | 10.21         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 4        | 10.21         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 6        | 10.21         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 20       | 10.21         |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 20       | 10.21         |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 19       | 10.21         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H    | 15       | 10.21         |
| (1,1761) | 1:A:6:GLN:HG3  | 1:A:22:GLN:HE22 | 7        | 10.21         |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2  | 5        | 10.21         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 3        | 10.21         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 16       | 10.21         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 16       | 10.21         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 4        | 10.21         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 4        | 10.21         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 17       | 10.21         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 10       | 10.21         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 10       | 10.21         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 3        | 10.21         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 12       | 10.21         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 3        | 10.21         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 19       | 10.21         |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 10       | 10.21         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 13       | 10.21         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 7        | 10.21         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 19       | 10.21         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 2        | 10.21         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 11       | 10.21         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 20       | 10.2          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2  | 5        | 10.2          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3  | 5        | 10.2          |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 20       | 10.2          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 3        | 10.2          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1  | 13       | 10.2          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1  | 13       | 10.2          |
| (1,4592) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HB2  | 11       | 10.2          |
| (1,4592) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HB2  | 11       | 10.2          |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA   | 1        | 10.2          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA  | 1        | 10.2          |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 13       | 10.2          |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 13       | 10.2          |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 13       | 10.2          |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 13       | 10.2          |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 6        | 10.2          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 14       | 10.2          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 19       | 10.2          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 17       | 10.2          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 17       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 11       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 11       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 12       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 12       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 13       | 10.2          |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 13       | 10.2          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 12       | 10.2          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 12       | 10.2          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 20       | 10.2          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 20       | 10.2          |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 2        | 10.2          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 8        | 10.2          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 18       | 10.2          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 2        | 10.2          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 8        | 10.2          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 18       | 10.2          |
| (1,3726) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HE1 | 5        | 10.2          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 6        | 10.2          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 6        | 10.2          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 15       | 10.2          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 15       | 10.2          |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 20       | 10.2          |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG  | 5        | 10.2          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H   | 17       | 10.2          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H   | 17       | 10.2          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 4        | 10.2          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 4        | 10.2          |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA  | 8        | 10.2          |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA  | 8        | 10.2          |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 2        | 10.2          |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 14       | 10.2          |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H   | 10       | 10.2          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 6        | 10.2          |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 14       | 10.2          |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 5        | 10.2          |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB2  | 17       | 10.2          |
| (1,3004) | 1:A:12:GLY:H   | 1:A:22:GLN:HB3  | 17       | 10.2          |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 6        | 10.2          |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 11       | 10.2          |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 12       | 10.2          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 12       | 10.2          |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 17       | 10.2          |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 1        | 10.2          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 12       | 10.2          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 18       | 10.2          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 19       | 10.2          |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 2        | 10.2          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD2  | 19       | 10.2          |
| (1,2307) | 1:A:9:PRO:HG2  | 1:A:15:ARG:HD3  | 19       | 10.2          |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 18       | 10.2          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 2        | 10.2          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 2        | 10.2          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 1        | 10.2          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 5        | 10.2          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 5        | 10.2          |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 9        | 10.2          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 10       | 10.2          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 10       | 10.2          |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 1        | 10.2          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 3        | 10.2          |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB2   | 9        | 10.2          |
| (1,1253) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HB3   | 9        | 10.2          |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 7        | 10.2          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 5        | 10.2          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 10       | 10.2          |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 16       | 10.19         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 18       | 10.19         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 7        | 10.19         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 7        | 10.19         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 19       | 10.19         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 19       | 10.19         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 14       | 10.19         |
| (1,623)  | 1:A:2:GLY:H    | 1:A:16:GLY:HA3  | 9        | 10.19         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H    | 15       | 10.19         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 3        | 10.19         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 3        | 10.19         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 6        | 10.19         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 6        | 10.19         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 15       | 10.19         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 15       | 10.19         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 16       | 10.19         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 16       | 10.19         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 2        | 10.19         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 17       | 10.19         |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 9        | 10.19         |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 9        | 10.19         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 6        | 10.19         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 6        | 10.19         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H    | 12       | 10.19         |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 7        | 10.19         |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3  | 11       | 10.19         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 6        | 10.19         |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 4        | 10.19         |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 4        | 10.19         |
| (1,3496) | 1:A:16:GLY:HA2  | 1:A:21:SER:HG   | 17       | 10.19         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 10       | 10.19         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3  | 17       | 10.19         |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 4        | 10.19         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 1        | 10.19         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 1        | 10.19         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 1        | 10.19         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 1        | 10.19         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 12       | 10.19         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 12       | 10.19         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 14       | 10.19         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H    | 6        | 10.19         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 14       | 10.19         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 15       | 10.19         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 12       | 10.19         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 1        | 10.19         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 2        | 10.19         |
| (1,2852) | 1:A:11:TRP:HE1  | 1:A:20:CYS:H    | 10       | 10.19         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 12       | 10.19         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 12       | 10.19         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 17       | 10.19         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 17       | 10.19         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 16       | 10.19         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 17       | 10.19         |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 17       | 10.19         |
| (1,2703) | 1:A:11:TRP:HB3 | 1:A:27:GLY:HA3  | 13       | 10.19         |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 5        | 10.19         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 11       | 10.19         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 15       | 10.19         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 1        | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 14       | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 14       | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 14       | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 14       | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 14       | 10.19         |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 14       | 10.19         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 14       | 10.19         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 8        | 10.19         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 8        | 10.19         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 10       | 10.19         |
| (1,2374) | 1:A:9:PRO:HG3  | 1:A:15:ARG:HE   | 7        | 10.19         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 16       | 10.19         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 16       | 10.19         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 16       | 10.19         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 1        | 10.19         |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 1        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 2        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 2        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 2        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 2        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 2        | 10.19         |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 2        | 10.19         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 16       | 10.19         |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 14       | 10.19         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA   | 1        | 10.19         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 1        | 10.19         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2  | 6        | 10.19         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3  | 6        | 10.19         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 9        | 10.19         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 12       | 10.19         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 5        | 10.19         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 5        | 10.19         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 6        | 10.19         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 6        | 10.19         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 12       | 10.19         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 12       | 10.19         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3 | 12       | 10.19         |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 2        | 10.19         |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 6        | 10.19         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H   | 10       | 10.19         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H   | 11       | 10.19         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3 | 3        | 10.19         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2 | 20       | 10.19         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3 | 20       | 10.19         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 16       | 10.19         |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 16       | 10.19         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H   | 19       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 7        | 10.18         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 7        | 10.18         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 14       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 14       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 18       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 18       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 19       | 10.18         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 19       | 10.18         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H    | 1        | 10.18         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H    | 20       | 10.18         |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2 | 3        | 10.18         |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2 | 6        | 10.18         |
| (1,782)  | 1:A:3:PRO:HB2  | 1:A:12:GLY:H   | 4        | 10.18         |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H   | 6        | 10.18         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3  | 11       | 10.18         |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 20       | 10.18         |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 20       | 10.18         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H   | 1        | 10.18         |
| (1,622)  | 1:A:2:GLY:H    | 1:A:16:GLY:H   | 13       | 10.18         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD1 | 10       | 10.18         |
| (1,525)  | 1:A:1:SER:HA   | 1:A:23:TYR:HD2 | 10       | 10.18         |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 7        | 10.18         |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H   | 16       | 10.18         |
| (1,4603) | 1:A:25:TYR:HE1 | 1:A:35:HIS:H   | 16       | 10.18         |
| (1,4603) | 1:A:25:TYR:HE2 | 1:A:35:HIS:H   | 16       | 10.18         |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2 | 17       | 10.18         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2 | 5        | 10.18         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3 | 5        | 10.18         |
| (1,4510) | 1:A:25:TYR:H   | 1:A:29:GLY:HA2 | 5        | 10.18         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 7        | 10.18         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 10       | 10.18         |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2 | 20       | 10.18         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 5        | 10.18         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 1        | 10.18         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 1        | 10.18         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2 | 2        | 10.18         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3 | 2        | 10.18         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 7        | 10.18         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 5        | 10.18         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 5        | 10.18         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 12       | 10.18         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 12       | 10.18         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 11       | 10.18         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 9        | 10.18         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 4        | 10.18         |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 9        | 10.18         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 6        | 10.18         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 6        | 10.18         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 8        | 10.18         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 8        | 10.18         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 13       | 10.18         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 13       | 10.18         |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA  | 3        | 10.18         |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA  | 3        | 10.18         |
| (1,3317) | 1:A:15:ARG:HB2  | 1:A:34:ALA:H   | 14       | 10.18         |
| (1,3312) | 1:A:15:ARG:HB2  | 1:A:30:PRO:HA  | 11       | 10.18         |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3 | 10       | 10.18         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 12       | 10.18         |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2 | 17       | 10.18         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD1 | 17       | 10.18         |
| (1,3157) | 1:A:13:GLY:HA3  | 1:A:23:TYR:HD2 | 17       | 10.18         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA  | 10       | 10.18         |
| (1,2991) | 1:A:12:GLY:H    | 1:A:18:LEU:H   | 5        | 10.18         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2 | 13       | 10.18         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3 | 13       | 10.18         |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA  | 16       | 10.18         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2 | 13       | 10.18         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3 | 13       | 10.18         |
| (1,2781) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HA  | 14       | 10.18         |
| (1,2742) | 1:A:11:TRP:HD1  | 1:A:22:GLN:H   | 9        | 10.18         |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H   | 4        | 10.18         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 6        | 10.18         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 8        | 10.18         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 12       | 10.18         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 7        | 10.18         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 11       | 10.18         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 16       | 10.18         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 16       | 10.18         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 6        | 10.18         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA   | 2        | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 12       | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 12       | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 12       | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 12       | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 12       | 10.18         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 12       | 10.18         |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 3        | 10.18         |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 10       | 10.18         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 6        | 10.18         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 13       | 10.18         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 7        | 10.18         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 8        | 10.18         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 12       | 10.18         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 20       | 10.18         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 3        | 10.18         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 2        | 10.18         |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 2        | 10.18         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 4        | 10.18         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 3        | 10.18         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 17       | 10.18         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 16       | 10.18         |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 3        | 10.18         |
| (1,1148) | 1:A:4:ASN:HB2  | 1:A:22:GLN:HA   | 4        | 10.18         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 5        | 10.18         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 6        | 10.18         |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 12       | 10.18         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 17       | 10.18         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 17       | 10.18         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 3        | 10.18         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 3        | 10.18         |
| (1,980)  | 1:A:3:PRO:HD2  | 1:A:27:GLY:H    | 7        | 10.17         |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG   | 17       | 10.17         |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG   | 17       | 10.17         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2   | 2        | 10.17         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2   | 2        | 10.17         |
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2   | 11       | 10.17         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2   | 11       | 10.17         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 17       | 10.17         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3   | 19       | 10.17         |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 4        | 10.17         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H    | 9        | 10.17         |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2  | 9        | 10.17         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2  | 20       | 10.17         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 7        | 10.17         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 7        | 10.17         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2  | 19       | 10.17         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3  | 19       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 18       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 18       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 19       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 19       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 20       | 10.17         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 20       | 10.17         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 14       | 10.17         |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 11       | 10.17         |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 11       | 10.17         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 12       | 10.17         |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 12       | 10.17         |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 8        | 10.17         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 5        | 10.17         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 5        | 10.17         |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 11       | 10.17         |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2  | 20       | 10.17         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 3        | 10.17         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 1        | 10.17         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 1        | 10.17         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 1        | 10.17         |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 15       | 10.17         |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 15       | 10.17         |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 15       | 10.17         |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 7        | 10.17         |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 7        | 10.17         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 9        | 10.17         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 9        | 10.17         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H    | 19       | 10.17         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1 | 1        | 10.17         |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2 | 1        | 10.17         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA2 | 14       | 10.17         |
| (1,3467) | 1:A:16:GLY:H   | 1:A:24:GLY:HA3 | 14       | 10.17         |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA  | 2        | 10.17         |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA  | 2        | 10.17         |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1 | 11       | 10.17         |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2 | 11       | 10.17         |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3 | 11       | 10.17         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA  | 2        | 10.17         |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA  | 9        | 10.17         |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H   | 3        | 10.17         |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H   | 4        | 10.17         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 13       | 10.17         |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 13       | 10.17         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA  | 13       | 10.17         |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 3        | 10.17         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H   | 10       | 10.17         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H   | 20       | 10.17         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA  | 15       | 10.17         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG  | 5        | 10.17         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA  | 6        | 10.17         |
| (1,2382) | 1:A:9:PRO:HG3  | 1:A:19:CYS:HA  | 17       | 10.17         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 1        | 10.17         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 11       | 10.17         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 4        | 10.17         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 4        | 10.17         |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 4        | 10.17         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 13       | 10.17         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3 | 18       | 10.17         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3 | 19       | 10.17         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 15       | 10.17         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1 | 15       | 10.17         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2 | 15       | 10.17         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3 | 15       | 10.17         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2 | 5        | 10.17         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3 | 5        | 10.17         |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 9        | 10.17         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H   | 14       | 10.17         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 8        | 10.16         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2  | 8        | 10.16         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2  | 12       | 10.16         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 12       | 10.16         |
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2  | 16       | 10.16         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 16       | 10.16         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 9        | 10.16         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 19       | 10.16         |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 4        | 10.16         |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 17       | 10.16         |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG  | 5        | 10.16         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3  | 7        | 10.16         |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 3        | 10.16         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 5        | 10.16         |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA  | 15       | 10.16         |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA  | 15       | 10.16         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 5        | 10.16         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 5        | 10.16         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 5        | 10.16         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 5        | 10.16         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 17       | 10.16         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 17       | 10.16         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 17       | 10.16         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 17       | 10.16         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 12       | 10.16         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 12       | 10.16         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 1        | 10.16         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 11       | 10.16         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 14       | 10.16         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 18       | 10.16         |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 18       | 10.16         |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 13       | 10.16         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 14       | 10.16         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 14       | 10.16         |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 7        | 10.16         |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 7        | 10.16         |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 7        | 10.16         |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 16       | 10.16         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 17       | 10.16         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 17       | 10.16         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 16       | 10.16         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 18       | 10.16         |
| (1,3535) | 1:A:16:GLY:HA3  | 1:A:25:TYR:HB3 | 12       | 10.16         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 19       | 10.16         |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 19       | 10.16         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3  | 19       | 10.16         |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H    | 16       | 10.16         |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H    | 16       | 10.16         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG   | 14       | 10.16         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG   | 14       | 10.16         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3  | 7        | 10.16         |
| (1,2938) | 1:A:11:TRP:HZ2 | 1:A:13:GLY:HA3  | 8        | 10.16         |
| (1,2938) | 1:A:11:TRP:HZ2 | 1:A:13:GLY:HA3  | 12       | 10.16         |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 15       | 10.16         |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 2        | 10.16         |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 10       | 10.16         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 13       | 10.16         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 18       | 10.16         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 19       | 10.16         |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 6        | 10.16         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 8        | 10.16         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 15       | 10.16         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 20       | 10.16         |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 13       | 10.16         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 12       | 10.16         |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 12       | 10.16         |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG   | 3        | 10.16         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 7        | 10.16         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 10       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 9        | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 9        | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 9        | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 18       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 18       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 18       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 20       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 20       | 10.16         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 20       | 10.16         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 19       | 10.16         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 3        | 10.16         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 11       | 10.16         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 8        | 10.16         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 8        | 10.16         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 8        | 10.16         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 8        | 10.16         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 2        | 10.16         |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 17       | 10.16         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H   | 4        | 10.16         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 8        | 10.16         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 8        | 10.16         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H   | 10       | 10.16         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 18       | 10.16         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 18       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 7        | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 7        | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 8        | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 8        | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 12       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 12       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 18       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 18       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 19       | 10.16         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 19       | 10.16         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2  | 4        | 10.16         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3  | 4        | 10.16         |
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2  | 6        | 10.15         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 6        | 10.15         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3  | 16       | 10.15         |
| (1,4659) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HG3 | 14       | 10.15         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 8        | 10.15         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 11       | 10.15         |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA  | 11       | 10.15         |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA  | 11       | 10.15         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 4        | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 9        | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 9        | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 9        | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 17       | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 17       | 10.15         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 17       | 10.15         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 10       | 10.15         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 10       | 10.15         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 3        | 10.15         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 13       | 10.15         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 17       | 10.15         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 6        | 10.15         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 1        | 10.15         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 5        | 10.15         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3 | 5        | 10.15         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 15       | 10.15         |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1  | 18       | 10.15         |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2  | 18       | 10.15         |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3  | 18       | 10.15         |
| (1,3512) | 1:A:16:GLY:HA2 | 1:A:30:PRO:HB2  | 5        | 10.15         |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2  | 8        | 10.15         |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 8        | 10.15         |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H    | 6        | 10.15         |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H    | 6        | 10.15         |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 14       | 10.15         |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 14       | 10.15         |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 14       | 10.15         |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 14       | 10.15         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 18       | 10.15         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 18       | 10.15         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 19       | 10.15         |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 19       | 10.15         |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 1        | 10.15         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 14       | 10.15         |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 4        | 10.15         |
| (1,2938) | 1:A:11:TRP:HZ2 | 1:A:13:GLY:HA3  | 9        | 10.15         |
| (1,2938) | 1:A:11:TRP:HZ2 | 1:A:13:GLY:HA3  | 20       | 10.15         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 16       | 10.15         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 16       | 10.15         |
| (1,2800) | 1:A:11:TRP:HE3 | 1:A:23:TYR:HB3  | 15       | 10.15         |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 2        | 10.15         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 2        | 10.15         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 4        | 10.15         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 4        | 10.15         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 4        | 10.15         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 15       | 10.15         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 15       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 16       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 16       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 16       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 16       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 16       | 10.15         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 16       | 10.15         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 16       | 10.15         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 4        | 10.15         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 19       | 10.15         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 19       | 10.15         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD13 | 19       | 10.15         |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE21 | 13       | 10.15         |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE22 | 13       | 10.15         |
| (1,2082) | 1:A:8:GLY:HA2   | 1:A:15:ARG:HG2  | 4        | 10.15         |
| (1,2082) | 1:A:8:GLY:HA2   | 1:A:15:ARG:HG3  | 4        | 10.15         |
| (1,1877) | 1:A:6:GLN:HE22  | 1:A:15:ARG:H    | 18       | 10.15         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H    | 5        | 10.15         |
| (1,1779) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HA   | 6        | 10.15         |
| (1,1753) | 1:A:6:GLN:HG3   | 1:A:18:LEU:HA   | 6        | 10.15         |
| (1,1711) | 1:A:6:GLN:HG2   | 1:A:19:CYS:HA   | 14       | 10.15         |
| (1,1427) | 1:A:5:GLY:H     | 1:A:22:GLN:H    | 13       | 10.15         |
| (1,1399) | 1:A:5:GLY:H     | 1:A:9:PRO:HA    | 4        | 10.15         |
| (1,1399) | 1:A:5:GLY:H     | 1:A:9:PRO:HA    | 10       | 10.15         |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2  | 17       | 10.15         |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3  | 17       | 10.15         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3  | 8        | 10.15         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H    | 1        | 10.15         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H    | 15       | 10.15         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2  | 9        | 10.15         |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3  | 9        | 10.15         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 7        | 10.14         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 15       | 10.14         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 18       | 10.14         |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 11       | 10.14         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 17       | 10.14         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 17       | 10.14         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 15       | 10.14         |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1  | 19       | 10.14         |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2  | 19       | 10.14         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 16       | 10.14         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 16       | 10.14         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 16       | 10.14         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 16       | 10.14         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 2        | 10.14         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 13       | 10.14         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 3        | 10.14         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 9        | 10.14         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 6        | 10.14         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 8        | 10.14         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 11       | 10.14         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 15       | 10.14         |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 6        | 10.14         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 6        | 10.14         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 3        | 10.14         |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 13       | 10.14         |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 13       | 10.14         |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 19       | 10.14         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 3        | 10.14         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 16       | 10.14         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 16       | 10.14         |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 16       | 10.14         |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 16       | 10.14         |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 16       | 10.14         |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 16       | 10.14         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 6        | 10.14         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3 | 6        | 10.14         |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 17       | 10.14         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 1        | 10.14         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2 | 6        | 10.14         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 1        | 10.14         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 1        | 10.14         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 1        | 10.14         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1 | 11       | 10.14         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2 | 11       | 10.14         |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 4        | 10.14         |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 4        | 10.14         |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 4        | 10.14         |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 4        | 10.14         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2 | 7        | 10.14         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3 | 7        | 10.14         |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H   | 9        | 10.14         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 7        | 10.14         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 16       | 10.14         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 18       | 10.14         |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 19       | 10.14         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2 | 5        | 10.14         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3 | 5        | 10.14         |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H   | 5        | 10.14         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H   | 7        | 10.14         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H   | 9        | 10.14         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1 | 2        | 10.14         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2 | 2        | 10.14         |
| (1,2382) | 1:A:9:PRO:HG3   | 1:A:19:CYS:HA  | 3        | 10.14         |
| (1,2336) | 1:A:9:PRO:HG2   | 1:A:26:CYS:H   | 18       | 10.14         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H   | 19       | 10.14         |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG  | 2        | 10.14         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 14       | 10.14         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 14       | 10.14         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA  | 14       | 10.14         |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 19       | 10.14         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 2        | 10.14         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 2        | 10.14         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 10       | 10.14         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 10       | 10.14         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 10       | 10.14         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 10       | 10.14         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 14       | 10.14         |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 14       | 10.14         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 14       | 10.14         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 19       | 10.14         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H   | 6        | 10.14         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA  | 10       | 10.14         |
| (1,1749) | 1:A:6:GLN:HG3  | 1:A:15:ARG:HA  | 11       | 10.14         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2 | 11       | 10.14         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3 | 11       | 10.14         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB2 | 2        | 10.14         |
| (1,1429) | 1:A:5:GLY:H    | 1:A:22:GLN:HB3 | 2        | 10.14         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H   | 15       | 10.14         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA   | 5        | 10.14         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA   | 6        | 10.14         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2 | 3        | 10.14         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3 | 3        | 10.14         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 12       | 10.14         |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H   | 2        | 10.14         |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 5        | 10.14         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3 | 5        | 10.14         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3 | 6        | 10.14         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H   | 15       | 10.14         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2 | 16       | 10.14         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3 | 16       | 10.14         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H   | 4        | 10.13         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H   | 14       | 10.13         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H    | 13       | 10.13         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H    | 16       | 10.13         |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H   | 2        | 10.13         |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG  | 14       | 10.13         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2  | 6        | 10.13         |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3  | 6        | 10.13         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3   | 8        | 10.13         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3   | 18       | 10.13         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD1  | 5        | 10.13         |
| (1,525)  | 1:A:1:SER:HA    | 1:A:23:TYR:HD2  | 5        | 10.13         |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2  | 8        | 10.13         |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1  | 3        | 10.13         |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1  | 3        | 10.13         |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 1        | 10.13         |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 15       | 10.13         |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2  | 12       | 10.13         |
| (1,4578) | 1:A:25:TYR:HD1  | 1:A:34:ALA:HA   | 16       | 10.13         |
| (1,4578) | 1:A:25:TYR:HD2  | 1:A:34:ALA:HA   | 16       | 10.13         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2  | 10       | 10.13         |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3  | 10       | 10.13         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2  | 10       | 10.13         |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3  | 10       | 10.13         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 11       | 10.13         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 11       | 10.13         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 14       | 10.13         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 14       | 10.13         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 17       | 10.13         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 18       | 10.13         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 19       | 10.13         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 20       | 10.13         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 1        | 10.13         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 9        | 10.13         |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H    | 15       | 10.13         |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H    | 15       | 10.13         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 18       | 10.13         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 18       | 10.13         |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 10       | 10.13         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2  | 13       | 10.13         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3  | 13       | 10.13         |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 10       | 10.13         |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 7        | 10.13         |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 17       | 10.13         |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 17       | 10.13         |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 17       | 10.13         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 5        | 10.13         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 5        | 10.13         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 5        | 10.13         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 1        | 10.13         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 15       | 10.13         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 15       | 10.13         |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 2        | 10.13         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H    | 4        | 10.13         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H    | 4        | 10.13         |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3  | 3        | 10.13         |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3  | 3        | 10.13         |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3  | 4        | 10.13         |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3  | 4        | 10.13         |
| (1,3353) | 1:A:15:ARG:HB3  | 1:A:34:ALA:H    | 15       | 10.13         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 19       | 10.13         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 19       | 10.13         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H    | 5        | 10.13         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H    | 6        | 10.13         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H    | 16       | 10.13         |
| (1,2644) | 1:A:11:TRP:HB2  | 1:A:18:LEU:H    | 13       | 10.13         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1  | 3        | 10.13         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2  | 3        | 10.13         |
| (1,2382) | 1:A:9:PRO:HG3   | 1:A:19:CYS:HA   | 4        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 8        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 8        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD13 | 8        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD21 | 8        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD22 | 8        | 10.13         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD23 | 8        | 10.13         |
| (1,2322) | 1:A:9:PRO:HG2   | 1:A:21:SER:HG   | 5        | 10.13         |
| (1,2322) | 1:A:9:PRO:HG2   | 1:A:21:SER:HG   | 6        | 10.13         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 16       | 10.13         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 16       | 10.13         |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB2  | 4        | 10.13         |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB3  | 4        | 10.13         |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE21 | 15       | 10.13         |
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE22 | 15       | 10.13         |
| (1,2019) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HD2  | 9        | 10.13         |
| (1,2019) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HD2  | 9        | 10.13         |
| (1,1895) | 1:A:6:GLN:HE22  | 1:A:23:TYR:HA   | 17       | 10.13         |
| (1,1877) | 1:A:6:GLN:HE22  | 1:A:15:ARG:H    | 7        | 10.13         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H    | 10       | 10.13         |
| (1,1874) | 1:A:6:GLN:HE22  | 1:A:13:GLY:HA3  | 12       | 10.13         |
| (1,1874) | 1:A:6:GLN:HE22  | 1:A:13:GLY:HA3  | 18       | 10.13         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 11       | 10.13         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 13       | 10.13         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2  | 15       | 10.13         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB1  | 2        | 10.13         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB2  | 2        | 10.13         |
| (1,1499) | 1:A:5:GLY:HA3  | 1:A:34:ALA:HB3  | 2        | 10.13         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 3        | 10.13         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 3        | 10.13         |
| (1,1360) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HA   | 3        | 10.13         |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 11       | 10.13         |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 11       | 10.13         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 11       | 10.13         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 14       | 10.13         |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 4        | 10.13         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 2        | 10.13         |
| (1,1075) | 1:A:4:ASN:H    | 1:A:20:CYS:HB3  | 10       | 10.13         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 1        | 10.13         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 1        | 10.13         |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 14       | 10.12         |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 14       | 10.12         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 5        | 10.12         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 5        | 10.12         |
| (1,893)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:HA2   | 10       | 10.12         |
| (1,893)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:HA2   | 10       | 10.12         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H     | 4        | 10.12         |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H    | 5        | 10.12         |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H    | 10       | 10.12         |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 13       | 10.12         |
| (1,682)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HB3   | 12       | 10.12         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE21 | 19       | 10.12         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE21 | 19       | 10.12         |
| (1,568)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HE22 | 19       | 10.12         |
| (1,568)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HE22 | 19       | 10.12         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1  | 3        | 10.12         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2  | 3        | 10.12         |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3  | 3        | 10.12         |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H    | 4        | 10.12         |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H    | 4        | 10.12         |
| (1,4590) | 1:A:25:TYR:HE1 | 1:A:31:LYS:H    | 2        | 10.12         |
| (1,4590) | 1:A:25:TYR:HE2 | 1:A:31:LYS:H    | 2        | 10.12         |
| (1,4564) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HA   | 2        | 10.12         |
| (1,4564) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HA   | 2        | 10.12         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 1        | 10.12         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 1        | 10.12         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 8        | 10.12         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 8        | 10.12         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 9        | 10.12         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 9        | 10.12         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 9        | 10.12         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2  | 15       | 10.12         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1  | 11       | 10.12         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2  | 11       | 10.12         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3  | 11       | 10.12         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB2  | 4        | 10.12         |
| (1,4449) | 1:A:24:GLY:H    | 1:A:30:PRO:HB3  | 4        | 10.12         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 17       | 10.12         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 17       | 10.12         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 14       | 10.12         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H    | 6        | 10.12         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 3        | 10.12         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 14       | 10.12         |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 14       | 10.12         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 8        | 10.12         |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 8        | 10.12         |
| (1,3491) | 1:A:16:GLY:H    | 1:A:35:HIS:HD2  | 10       | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 7        | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 7        | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 9        | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 9        | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 12       | 10.12         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 12       | 10.12         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 19       | 10.12         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 19       | 10.12         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 8        | 10.12         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 8        | 10.12         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 20       | 10.12         |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 20       | 10.12         |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 7        | 10.12         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 2        | 10.12         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 2        | 10.12         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 4        | 10.12         |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 4        | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 8        | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 8        | 10.12         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 11       | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 11       | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 15       | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 15       | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 18       | 10.12         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 18       | 10.12         |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 11       | 10.12         |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 13       | 10.12         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 3        | 10.12         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 3        | 10.12         |
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 3        | 10.12         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 11       | 10.12         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 11       | 10.12         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 9        | 10.12         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 20       | 10.12         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 5        | 10.12         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 5        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 5        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 5        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 5        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 6        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 6        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 6        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 7        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 7        | 10.12         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 7        | 10.12         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 9        | 10.12         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 19       | 10.12         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 20       | 10.12         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 11       | 10.12         |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 11       | 10.12         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 2        | 10.12         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 4        | 10.12         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 1        | 10.12         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 8        | 10.12         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 16       | 10.12         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 14       | 10.12         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 13       | 10.12         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 13       | 10.12         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 15       | 10.12         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 15       | 10.12         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 20       | 10.12         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1399) | 1:A:5:GLY:H     | 1:A:9:PRO:HA   | 14       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 16       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 16       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 18       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 18       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 19       | 10.12         |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 19       | 10.12         |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB2 | 11       | 10.12         |
| (1,1264) | 1:A:4:ASN:HD21  | 1:A:15:ARG:HB3 | 11       | 10.12         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3 | 18       | 10.12         |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 10       | 10.12         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 2        | 10.12         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 2        | 10.12         |
| (1,893)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:HA2  | 9        | 10.11         |
| (1,893)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:HA2  | 9        | 10.11         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 8        | 10.11         |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H   | 9        | 10.11         |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE  | 14       | 10.11         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 3        | 10.11         |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG  | 2        | 10.11         |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 10       | 10.11         |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 10       | 10.11         |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H   | 14       | 10.11         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H   | 18       | 10.11         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H   | 18       | 10.11         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 17       | 10.11         |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1 | 6        | 10.11         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA  | 16       | 10.11         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 13       | 10.11         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 13       | 10.11         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 15       | 10.11         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 15       | 10.11         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 16       | 10.11         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 7        | 10.11         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 7        | 10.11         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 7        | 10.11         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 2        | 10.11         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 5        | 10.11         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 20       | 10.11         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 20       | 10.11         |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 12       | 10.11         |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 5        | 10.11         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD3  | 5        | 10.11         |
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H    | 4        | 10.11         |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2  | 4        | 10.11         |
| (1,4174) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB2  | 7        | 10.11         |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 5        | 10.11         |
| (1,3981) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HE1  | 20       | 10.11         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1  | 12       | 10.11         |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2  | 12       | 10.11         |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H    | 2        | 10.11         |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H    | 2        | 10.11         |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H    | 10       | 10.11         |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H    | 10       | 10.11         |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2  | 3        | 10.11         |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2  | 3        | 10.11         |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3  | 3        | 10.11         |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3  | 3        | 10.11         |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3  | 2        | 10.11         |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3  | 2        | 10.11         |
| (1,3301) | 1:A:15:ARG:HB2 | 1:A:24:GLY:HA2  | 18       | 10.11         |
| (1,3301) | 1:A:15:ARG:HB2 | 1:A:24:GLY:HA2  | 19       | 10.11         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 16       | 10.11         |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 16       | 10.11         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 6        | 10.11         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 6        | 10.11         |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H    | 17       | 10.11         |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 15       | 10.11         |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 9        | 10.11         |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 14       | 10.11         |
| (1,2467) | 1:A:10:GLY:H   | 1:A:21:SER:HG   | 17       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 18       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 19       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 19       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 19       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 19       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 19       | 10.11         |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 19       | 10.11         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 14       | 10.11         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 3        | 10.11         |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 3        | 10.11         |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 3        | 10.11         |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 3        | 10.11         |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 3        | 10.11         |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 3        | 10.11         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 7        | 10.11         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3 | 15       | 10.11         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 14       | 10.11         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H   | 5        | 10.11         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H   | 10       | 10.11         |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 4        | 10.11         |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 4        | 10.11         |
| (1,1601) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HG2 | 10       | 10.11         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 12       | 10.11         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 16       | 10.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 6        | 10.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 6        | 10.11         |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 6        | 10.11         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 4        | 10.11         |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 11       | 10.11         |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 14       | 10.11         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3 | 16       | 10.11         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3 | 19       | 10.11         |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 5        | 10.11         |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H   | 11       | 10.1          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H   | 11       | 10.1          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H   | 11       | 10.1          |
| (1,782)  | 1:A:3:PRO:HB2  | 1:A:12:GLY:H   | 2        | 10.1          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 4        | 10.1          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 18       | 10.1          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 18       | 10.1          |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H   | 12       | 10.1          |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H   | 12       | 10.1          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 4        | 10.1          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 4        | 10.1          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2 | 19       | 10.1          |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA  | 18       | 10.1          |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA  | 19       | 10.1          |
| (1,4655) | 1:A:26:CYS:HB2 | 1:A:30:PRO:HA  | 20       | 10.1          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2 | 19       | 10.1          |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H   | 18       | 10.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 17       | 10.1          |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 17       | 10.1          |
| (1,4510) | 1:A:25:TYR:H   | 1:A:29:GLY:HA2  | 14       | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB1  | 1        | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB2  | 1        | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB3  | 1        | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB1  | 16       | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB2  | 16       | 10.1          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB3  | 16       | 10.1          |
| (1,4447) | 1:A:24:GLY:H   | 1:A:29:GLY:H    | 4        | 10.1          |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3  | 2        | 10.1          |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3  | 2        | 10.1          |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 11       | 10.1          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB2  | 13       | 10.1          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB3  | 13       | 10.1          |
| (1,4255) | 1:A:22:GLN:HG3 | 1:A:27:GLY:HA2  | 4        | 10.1          |
| (1,4230) | 1:A:22:GLN:HB3 | 1:A:28:SER:H    | 17       | 10.1          |
| (1,4204) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HB3  | 18       | 10.1          |
| (1,4204) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HB3  | 19       | 10.1          |
| (1,4183) | 1:A:22:GLN:HB2 | 1:A:28:SER:H    | 3        | 10.1          |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 8        | 10.1          |
| (1,3584) | 1:A:17:GLY:H   | 1:A:34:ALA:HA   | 5        | 10.1          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1  | 7        | 10.1          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2  | 7        | 10.1          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3  | 7        | 10.1          |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE1  | 5        | 10.1          |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2  | 5        | 10.1          |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2  | 3        | 10.1          |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3  | 3        | 10.1          |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2  | 9        | 10.1          |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 9        | 10.1          |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG   | 1        | 10.1          |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H    | 12       | 10.1          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 19       | 10.1          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 19       | 10.1          |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 5        | 10.1          |
| (1,3002) | 1:A:12:GLY:H   | 1:A:22:GLN:HA   | 14       | 10.1          |
| (1,2991) | 1:A:12:GLY:H   | 1:A:18:LEU:H    | 17       | 10.1          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 13       | 10.1          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 13       | 10.1          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 13       | 10.1          |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 1        | 10.1          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 1        | 10.1          |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 7        | 10.1          |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 7        | 10.1          |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 1        | 10.1          |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 1        | 10.1          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 1        | 10.1          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2  | 14       | 10.1          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3  | 14       | 10.1          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 6        | 10.1          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 6        | 10.1          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 4        | 10.1          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 5        | 10.1          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 1        | 10.1          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 11       | 10.1          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 14       | 10.1          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 10       | 10.1          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 10       | 10.1          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 7        | 10.1          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 12       | 10.1          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 12       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 20       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 20       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 20       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 20       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 20       | 10.1          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 20       | 10.1          |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 3        | 10.1          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 10       | 10.1          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 10       | 10.1          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 10       | 10.1          |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 3        | 10.1          |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 3        | 10.1          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 13       | 10.1          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 13       | 10.1          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H    | 15       | 10.1          |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 1        | 10.1          |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 13       | 10.1          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 2        | 10.1          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 3        | 10.1          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 3        | 10.1          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 6        | 10.1          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 4        | 10.1          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1578) | 1:A:6:GLN:HA    | 1:A:31:LYS:HZ2 | 4        | 10.1          |
| (1,1578) | 1:A:6:GLN:HA    | 1:A:31:LYS:HZ3 | 4        | 10.1          |
| (1,1331) | 1:A:4:ASN:HD22  | 1:A:12:GLY:H   | 14       | 10.1          |
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H    | 3        | 10.1          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 7        | 10.1          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 7        | 10.1          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2 | 2        | 10.1          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3 | 2        | 10.1          |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3 | 7        | 10.1          |
| (1,1187) | 1:A:4:ASN:HB3   | 1:A:10:GLY:HA3 | 11       | 10.1          |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 9        | 10.1          |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 13       | 10.1          |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 9        | 10.1          |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 9        | 10.1          |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2 | 8        | 10.09         |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3 | 8        | 10.09         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 11       | 10.09         |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 2        | 10.09         |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 5        | 10.09         |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H   | 12       | 10.09         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 13       | 10.09         |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 16       | 10.09         |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 16       | 10.09         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H   | 5        | 10.09         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H   | 5        | 10.09         |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2 | 18       | 10.09         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2 | 11       | 10.09         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2 | 11       | 10.09         |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 11       | 10.09         |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 11       | 10.09         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 8        | 10.09         |
| (1,4510) | 1:A:25:TYR:H    | 1:A:29:GLY:HA2 | 12       | 10.09         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 18       | 10.09         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 18       | 10.09         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 18       | 10.09         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 7        | 10.09         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 7        | 10.09         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 15       | 10.09         |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 19       | 10.09         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 5        | 10.09         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 9        | 10.09         |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 10       | 10.09         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 12       | 10.09         |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 3        | 10.09         |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 3        | 10.09         |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 3        | 10.09         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 18       | 10.09         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 18       | 10.09         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 3        | 10.09         |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 3        | 10.09         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 12       | 10.09         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1  | 11       | 10.09         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2  | 11       | 10.09         |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3  | 11       | 10.09         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1  | 16       | 10.09         |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2  | 16       | 10.09         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA   | 3        | 10.09         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 20       | 10.09         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 20       | 10.09         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 12       | 10.09         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 12       | 10.09         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 15       | 10.09         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 15       | 10.09         |
| (1,2651) | 1:A:11:TRP:HB2  | 1:A:22:GLN:H    | 14       | 10.09         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 16       | 10.09         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 18       | 10.09         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 19       | 10.09         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 20       | 10.09         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG2  | 7        | 10.09         |
| (1,2490) | 1:A:10:GLY:HA2  | 1:A:15:ARG:HG3  | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD13 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD21 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD22 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD23 | 7        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 9        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 9        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD13 | 9        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD21 | 9        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD22 | 9        | 10.09         |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD23 | 9        | 10.09         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 7        | 10.09         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 7        | 10.09         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 9        | 10.09         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 9        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD11 | 3        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD12 | 3        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD13 | 3        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD11 | 4        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD12 | 4        | 10.09         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD13 | 4        | 10.09         |
| (1,2087) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HG3  | 3        | 10.09         |
| (1,2085) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HG2  | 13       | 10.09         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H    | 12       | 10.09         |
| (1,1874) | 1:A:6:GLN:HE22  | 1:A:13:GLY:HA3  | 20       | 10.09         |
| (1,1753) | 1:A:6:GLN:HG3   | 1:A:18:LEU:HA   | 3        | 10.09         |
| (1,1711) | 1:A:6:GLN:HG2   | 1:A:19:CYS:HA   | 1        | 10.09         |
| (1,1649) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HG2  | 14       | 10.09         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE1  | 3        | 10.09         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE2  | 3        | 10.09         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE1  | 6        | 10.09         |
| (1,1434) | 1:A:5:GLY:H     | 1:A:23:TYR:HE2  | 6        | 10.09         |
| (1,1427) | 1:A:5:GLY:H     | 1:A:22:GLN:H    | 18       | 10.09         |
| (1,1360) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HA   | 4        | 10.09         |
| (1,1321) | 1:A:4:ASN:HD22  | 1:A:8:GLY:H     | 14       | 10.09         |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H    | 3        | 10.09         |
| (1,1196) | 1:A:4:ASN:HB3   | 1:A:13:GLY:H    | 10       | 10.09         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2  | 6        | 10.09         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3  | 6        | 10.09         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 12       | 10.08         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H    | 17       | 10.08         |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1  | 6        | 10.08         |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1  | 6        | 10.08         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 1        | 10.08         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 1        | 10.08         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2  | 4        | 10.08         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3  | 4        | 10.08         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1  | 19       | 10.08         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2  | 19       | 10.08         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3  | 19       | 10.08         |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 6        | 10.08         |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 6        | 10.08         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 1        | 10.08         |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 1        | 10.08         |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 4        | 10.08         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 17       | 10.08         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 8        | 10.08         |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 12       | 10.08         |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 8        | 10.08         |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 8        | 10.08         |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 8        | 10.08         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 4        | 10.08         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 4        | 10.08         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 4        | 10.08         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 1        | 10.08         |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 1        | 10.08         |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 5        | 10.08         |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 13       | 10.08         |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2  | 2        | 10.08         |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2  | 2        | 10.08         |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3  | 2        | 10.08         |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3  | 2        | 10.08         |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 9        | 10.08         |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 13       | 10.08         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE1  | 1        | 10.08         |
| (1,3304) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HE2  | 1        | 10.08         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 9        | 10.08         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 5        | 10.08         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 5        | 10.08         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 20       | 10.08         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 2        | 10.08         |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 2        | 10.08         |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA   | 6        | 10.08         |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG   | 3        | 10.08         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2  | 13       | 10.08         |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3  | 13       | 10.08         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 8        | 10.08         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 9        | 10.08         |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 15       | 10.08         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1  | 1        | 10.08         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2  | 1        | 10.08         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE1  | 17       | 10.08         |
| (1,2329) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HE2  | 17       | 10.08         |
| (1,2268) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HD1  | 14       | 10.08         |
| (1,2268) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HD2  | 14       | 10.08         |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE21 | 3        | 10.08         |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE22 | 3        | 10.08         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE1 | 17       | 10.08         |
| (1,2055) | 1:A:8:GLY:H     | 1:A:23:TYR:HE2 | 17       | 10.08         |
| (1,1965) | 1:A:7:CYS:H     | 1:A:31:LYS:HG2 | 7        | 10.08         |
| (1,1965) | 1:A:7:CYS:H     | 1:A:31:LYS:HG3 | 7        | 10.08         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H   | 1        | 10.08         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H   | 16       | 10.08         |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H   | 19       | 10.08         |
| (1,1807) | 1:A:6:GLN:HE21  | 1:A:15:ARG:H   | 1        | 10.08         |
| (1,1805) | 1:A:6:GLN:HE21  | 1:A:14:CYS:H   | 4        | 10.08         |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB2 | 4        | 10.08         |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB3 | 4        | 10.08         |
| (1,1595) | 1:A:6:GLN:HB2   | 1:A:19:CYS:HB3 | 8        | 10.08         |
| (1,1427) | 1:A:5:GLY:H     | 1:A:22:GLN:H   | 16       | 10.08         |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2 | 17       | 10.08         |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3 | 17       | 10.08         |
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H   | 17       | 10.08         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H   | 8        | 10.08         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 14       | 10.08         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 14       | 10.08         |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H   | 1        | 10.07         |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H   | 13       | 10.07         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 17       | 10.07         |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 17       | 10.07         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 6        | 10.07         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 17       | 10.07         |
| (1,4605) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HE1 | 9        | 10.07         |
| (1,4605) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HE1 | 9        | 10.07         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 14       | 10.07         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 14       | 10.07         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 20       | 10.07         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 20       | 10.07         |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 20       | 10.07         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 4        | 10.07         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 4        | 10.07         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 11       | 10.07         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 16       | 10.07         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 1        | 10.07         |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 1        | 10.07         |
| (1,4389) | 1:A:23:TYR:HB3  | 1:A:31:LYS:H   | 4        | 10.07         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 7        | 10.07         |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 4        | 10.07         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 15       | 10.07         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 15       | 10.07         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 8        | 10.07         |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2  | 1        | 10.07         |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2  | 16       | 10.07         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 18       | 10.07         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H    | 17       | 10.07         |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 3        | 10.07         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 18       | 10.07         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 18       | 10.07         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 18       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 20       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 20       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 20       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 20       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 20       | 10.07         |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 20       | 10.07         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 2        | 10.07         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 1        | 10.07         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 16       | 10.07         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 17       | 10.07         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 17       | 10.07         |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 12       | 10.07         |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 6        | 10.07         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 4        | 10.07         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 4        | 10.07         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H    | 11       | 10.07         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 8        | 10.07         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 8        | 10.07         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H    | 3        | 10.07         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H    | 3        | 10.07         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2  | 16       | 10.07         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2  | 16       | 10.07         |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3  | 16       | 10.07         |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3  | 16       | 10.07         |
| (1,3348) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HA   | 13       | 10.07         |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 8        | 10.07         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 7        | 10.07         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 3        | 10.07         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 3        | 10.07         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 16       | 10.07         |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 16       | 10.07         |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 13       | 10.07         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB2  | 13       | 10.07         |
| (1,2848) | 1:A:11:TRP:HE1 | 1:A:18:LEU:HB3  | 13       | 10.07         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 9        | 10.07         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 9        | 10.07         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2  | 20       | 10.07         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3  | 20       | 10.07         |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 15       | 10.07         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 11       | 10.07         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 8        | 10.07         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 16       | 10.07         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 16       | 10.07         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 10       | 10.07         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 2        | 10.07         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 2        | 10.07         |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 2        | 10.07         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 3        | 10.07         |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 17       | 10.07         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 12       | 10.07         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 7        | 10.07         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 18       | 10.07         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 6        | 10.07         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 11       | 10.07         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 15       | 10.07         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 13       | 10.07         |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 5        | 10.07         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 11       | 10.07         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 2        | 10.07         |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 2        | 10.07         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2  | 19       | 10.07         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3  | 19       | 10.07         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 4        | 10.07         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 4        | 10.07         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 19       | 10.07         |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 6        | 10.07         |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 6        | 10.07         |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 4        | 10.07         |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 4        | 10.07         |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 20       | 10.07         |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H    | 4        | 10.07         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 5        | 10.07         |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 1        | 10.07         |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 20       | 10.07         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 11       | 10.07         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2  | 20       | 10.07         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3  | 20       | 10.07         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2  | 3        | 10.07         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3  | 3        | 10.07         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2  | 17       | 10.07         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3  | 17       | 10.07         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 1        | 10.06         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 20       | 10.06         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 14       | 10.06         |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG  | 12       | 10.06         |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE1 | 10       | 10.06         |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2 | 10       | 10.06         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 16       | 10.06         |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 16       | 10.06         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 16       | 10.06         |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 16       | 10.06         |
| (1,4655) | 1:A:26:CYS:HB2  | 1:A:30:PRO:HA  | 14       | 10.06         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2 | 7        | 10.06         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3 | 7        | 10.06         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 19       | 10.06         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 19       | 10.06         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 20       | 10.06         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 20       | 10.06         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 2        | 10.06         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 2        | 10.06         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB2 | 16       | 10.06         |
| (1,4511) | 1:A:25:TYR:H    | 1:A:30:PRO:HB3 | 16       | 10.06         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 16       | 10.06         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 16       | 10.06         |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 12       | 10.06         |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 15       | 10.06         |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 15       | 10.06         |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 15       | 10.06         |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 15       | 10.06         |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 14       | 10.06         |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 5        | 10.06         |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3 | 20       | 10.06         |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 14       | 10.06         |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 9        | 10.06         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 2        | 10.06         |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 3        | 10.06         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 18       | 10.06         |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 16       | 10.06         |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 16       | 10.06         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 16       | 10.06         |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 6        | 10.06         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H    | 13       | 10.06         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 4        | 10.06         |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 4        | 10.06         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2  | 13       | 10.06         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2  | 13       | 10.06         |
| (1,3400) | 1:A:15:ARG:HD2  | 1:A:22:GLN:H    | 1        | 10.06         |
| (1,3400) | 1:A:15:ARG:HD3  | 1:A:22:GLN:H    | 1        | 10.06         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 7        | 10.06         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 7        | 10.06         |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 7        | 10.06         |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 7        | 10.06         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 10       | 10.06         |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 10       | 10.06         |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG   | 4        | 10.06         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 20       | 10.06         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 20       | 10.06         |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 15       | 10.06         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2  | 9        | 10.06         |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3  | 9        | 10.06         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 18       | 10.06         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 18       | 10.06         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 19       | 10.06         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 19       | 10.06         |
| (1,2402) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HA   | 13       | 10.06         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1  | 6        | 10.06         |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2  | 6        | 10.06         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 10       | 10.06         |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 10       | 10.06         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD11 | 15       | 10.06         |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD12 | 15       | 10.06         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 15       | 10.06         |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 16       | 10.06         |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 6        | 10.06         |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 6        | 10.06         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 15       | 10.06         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 5        | 10.06         |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 10       | 10.06         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 9        | 10.06         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 18       | 10.06         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3  | 20       | 10.06         |
| (1,1417) | 1:A:5:GLY:H    | 1:A:17:GLY:HA3  | 17       | 10.06         |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 4        | 10.06         |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 20       | 10.06         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 6        | 10.06         |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 6        | 10.06         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 17       | 10.06         |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 12       | 10.06         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 15       | 10.06         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 15       | 10.06         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB2  | 10       | 10.06         |
| (1,1018) | 1:A:3:PRO:HD3  | 1:A:20:CYS:HB3  | 10       | 10.06         |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 15       | 10.05         |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 1        | 10.05         |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 1        | 10.05         |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 13       | 10.05         |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 13       | 10.05         |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H     | 9        | 10.05         |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 9        | 10.05         |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 8        | 10.05         |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 1        | 10.05         |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 11       | 10.05         |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 4        | 10.05         |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 4        | 10.05         |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 17       | 10.05         |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 17       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 18       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 18       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 19       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 19       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB2  | 20       | 10.05         |
| (1,4511) | 1:A:25:TYR:H   | 1:A:30:PRO:HB3  | 20       | 10.05         |
| (1,4475) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HE2  | 12       | 10.05         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 12       | 10.05         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 2        | 10.05         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 2        | 10.05         |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 2        | 10.05         |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 2        | 10.05         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 3        | 10.05         |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 16       | 10.05         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 8        | 10.05         |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 8        | 10.05         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 9        | 10.05         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 9        | 10.05         |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 8        | 10.05         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 4        | 10.05         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 7        | 10.05         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 8        | 10.05         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 8        | 10.05         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 8        | 10.05         |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 10       | 10.05         |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 10       | 10.05         |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 10       | 10.05         |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 3        | 10.05         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 2        | 10.05         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 13       | 10.05         |
| (1,3735) | 1:A:18:LEU:HG   | 1:A:23:TYR:HB2 | 14       | 10.05         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H   | 7        | 10.05         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H   | 10       | 10.05         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H   | 13       | 10.05         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 4        | 10.05         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 4        | 10.05         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 16       | 10.05         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 16       | 10.05         |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 16       | 10.05         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 5        | 10.05         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 5        | 10.05         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 16       | 10.05         |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 16       | 10.05         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 8        | 10.05         |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 20       | 10.05         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 4        | 10.05         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 4        | 10.05         |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 4        | 10.05         |
| (1,3252) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HG3 | 16       | 10.05         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3217) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HG3 | 9        | 10.05         |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG  | 3        | 10.05         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2 | 16       | 10.05         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3 | 16       | 10.05         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB2 | 18       | 10.05         |
| (1,3034) | 1:A:12:GLY:H   | 1:A:32:TYR:HB3 | 18       | 10.05         |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H   | 1        | 10.05         |
| (1,2852) | 1:A:11:TRP:HE1 | 1:A:20:CYS:H   | 13       | 10.05         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2 | 8        | 10.05         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3 | 8        | 10.05         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB2 | 17       | 10.05         |
| (1,2769) | 1:A:11:TRP:HD1 | 1:A:32:TYR:HB3 | 17       | 10.05         |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG  | 2        | 10.05         |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3 | 11       | 10.05         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2 | 20       | 10.05         |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3 | 20       | 10.05         |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA  | 1        | 10.05         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1 | 18       | 10.05         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2 | 18       | 10.05         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1 | 20       | 10.05         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2 | 20       | 10.05         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 17       | 10.05         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 8        | 10.05         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 8        | 10.05         |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA  | 2        | 10.05         |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 18       | 10.05         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 5        | 10.05         |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 13       | 10.05         |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 11       | 10.05         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H   | 8        | 10.05         |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 2        | 10.05         |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 2        | 10.05         |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 10       | 10.05         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 17       | 10.05         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 17       | 10.05         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 19       | 10.05         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 14       | 10.05         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 14       | 10.05         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 14       | 10.05         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG2 | 14       | 10.05         |
| (1,1577) | 1:A:6:GLN:HA   | 1:A:31:LYS:HG3 | 14       | 10.05         |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 6        | 10.05         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2 | 3        | 10.05         |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3 | 3        | 10.05         |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2 | 12       | 10.05         |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3 | 12       | 10.05         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD2  | 1        | 10.05         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD3  | 1        | 10.05         |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2 | 14       | 10.05         |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3 | 14       | 10.05         |
| (1,1213) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HA  | 8        | 10.05         |
| (1,1207) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HA  | 13       | 10.05         |
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H   | 7        | 10.05         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2  | 18       | 10.05         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3  | 18       | 10.05         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2  | 19       | 10.05         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3  | 19       | 10.05         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB2 | 5        | 10.05         |
| (1,1018) | 1:A:3:PRO:HD3   | 1:A:20:CYS:HB3 | 5        | 10.05         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2  | 2        | 10.05         |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3  | 2        | 10.05         |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 1        | 10.04         |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2 | 12       | 10.04         |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3 | 12       | 10.04         |
| (1,919)  | 1:A:3:PRO:HG2   | 1:A:21:SER:H   | 12       | 10.04         |
| (1,919)  | 1:A:3:PRO:HG3   | 1:A:21:SER:H   | 12       | 10.04         |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 3        | 10.04         |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H   | 1        | 10.04         |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H   | 3        | 10.04         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1 | 9        | 10.04         |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2 | 9        | 10.04         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1 | 9        | 10.04         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2 | 9        | 10.04         |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 6        | 10.04         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H   | 19       | 10.04         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H   | 19       | 10.04         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 18       | 10.04         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 12       | 10.04         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 12       | 10.04         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 16       | 10.04         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 16       | 10.04         |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 5        | 10.04         |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 19       | 10.04         |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 18       | 10.04         |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 18       | 10.04         |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 15       | 10.04         |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 7        | 10.04         |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 9        | 10.04         |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 9        | 10.04         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H    | 14       | 10.04         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 10       | 10.04         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 18       | 10.04         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 19       | 10.04         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 9        | 10.04         |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 9        | 10.04         |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 14       | 10.04         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 19       | 10.04         |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 19       | 10.04         |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 15       | 10.04         |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 3        | 10.04         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 2        | 10.04         |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 2        | 10.04         |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H    | 14       | 10.04         |
| (1,3512) | 1:A:16:GLY:HA2  | 1:A:30:PRO:HB2  | 17       | 10.04         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 13       | 10.04         |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 13       | 10.04         |
| (1,3418) | 1:A:15:ARG:HD2  | 1:A:35:HIS:HE1  | 1        | 10.04         |
| (1,3418) | 1:A:15:ARG:HD3  | 1:A:35:HIS:HE1  | 1        | 10.04         |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2  | 16       | 10.04         |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2  | 16       | 10.04         |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H    | 16       | 10.04         |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H    | 16       | 10.04         |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H    | 15       | 10.04         |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H    | 15       | 10.04         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 7        | 10.04         |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 7        | 10.04         |
| (1,3189) | 1:A:14:CYS:H    | 1:A:29:GLY:HA3  | 18       | 10.04         |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG   | 10       | 10.04         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 19       | 10.04         |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 19       | 10.04         |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 11       | 10.04         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 7        | 10.04         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 7        | 10.04         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA2  | 11       | 10.04         |
| (1,2807) | 1:A:11:TRP:HE3  | 1:A:27:GLY:HA3  | 11       | 10.04         |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG   | 10       | 10.04         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE  | 17       | 10.04         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 19       | 10.04         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 19       | 10.04         |
| (1,2359) | 1:A:9:PRO:HG2  | 1:A:35:HIS:HE1 | 9        | 10.04         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 2        | 10.04         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 2        | 10.04         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1 | 9        | 10.04         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2 | 9        | 10.04         |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H   | 6        | 10.04         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 10       | 10.04         |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 5        | 10.04         |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 6        | 10.04         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3 | 4        | 10.04         |
| (1,1807) | 1:A:6:GLN:HE21 | 1:A:15:ARG:H   | 11       | 10.04         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA  | 12       | 10.04         |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 5        | 10.04         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 16       | 10.04         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2 | 9        | 10.04         |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3 | 9        | 10.04         |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 4        | 10.04         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H   | 3        | 10.04         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H   | 7        | 10.04         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 16       | 10.04         |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 16       | 10.04         |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 3        | 10.04         |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3 | 10       | 10.04         |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H   | 6        | 10.04         |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2  | 15       | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 7        | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 7        | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 8        | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 8        | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 11       | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 11       | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2  | 13       | 10.04         |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3  | 13       | 10.04         |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H   | 12       | 10.03         |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H   | 9        | 10.03         |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H   | 9        | 10.03         |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H   | 15       | 10.03         |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H   | 15       | 10.03         |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H   | 3        | 10.03         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 2        | 10.03         |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 10       | 10.03         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 5        | 10.03         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 19       | 10.03         |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H   | 2        | 10.03         |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 1        | 10.03         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 1        | 10.03         |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 12       | 10.03         |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2 | 3        | 10.03         |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3 | 3        | 10.03         |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2 | 3        | 10.03         |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3 | 3        | 10.03         |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 11       | 10.03         |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 10       | 10.03         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 13       | 10.03         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 13       | 10.03         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 13       | 10.03         |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 7        | 10.03         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 13       | 10.03         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 7        | 10.03         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 7        | 10.03         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 12       | 10.03         |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 12       | 10.03         |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 1        | 10.03         |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 10.03         |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 6        | 10.03         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 20       | 10.03         |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 7        | 10.03         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 12       | 10.03         |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 12       | 10.03         |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 1        | 10.03         |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 1        | 10.03         |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 1        | 10.03         |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3 | 1        | 10.03         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 18       | 10.03         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 19       | 10.03         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H   | 2        | 10.03         |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H   | 20       | 10.03         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 2        | 10.03         |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 2        | 10.03         |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 7        | 10.03         |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 3        | 10.03         |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 3        | 10.03         |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H   | 12       | 10.03         |
| (1,3350) | 1:A:15:ARG:HB3 | 1:A:32:TYR:HA  | 1        | 10.03         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 1        | 10.03         |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 1        | 10.03         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3 | 19       | 10.03         |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1 | 6        | 10.03         |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2 | 6        | 10.03         |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG  | 2        | 10.03         |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG  | 6        | 10.03         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA2 | 16       | 10.03         |
| (1,2807) | 1:A:11:TRP:HE3 | 1:A:27:GLY:HA3 | 16       | 10.03         |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 10       | 10.03         |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 10       | 10.03         |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3 | 1        | 10.03         |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3 | 12       | 10.03         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 16       | 10.03         |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 16       | 10.03         |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H   | 7        | 10.03         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1 | 7        | 10.03         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2 | 7        | 10.03         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 1        | 10.03         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 1        | 10.03         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 1        | 10.03         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 1        | 10.03         |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 10       | 10.03         |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 10       | 10.03         |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 20       | 10.03         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H   | 20       | 10.03         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 2        | 10.03         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3 | 5        | 10.03         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA  | 5        | 10.03         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA  | 9        | 10.03         |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 15       | 10.03         |
| (1,1595) | 1:A:6:GLN:HB2  | 1:A:19:CYS:HB3 | 7        | 10.03         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1 | 12       | 10.03         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2 | 12       | 10.03         |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3 | 12       | 10.03         |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 10       | 10.03         |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 10       | 10.03         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1 | 20       | 10.03         |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2 | 20       | 10.03         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1427) | 1:A:5:GLY:H     | 1:A:22:GLN:H   | 4        | 10.03         |
| (1,1427) | 1:A:5:GLY:H     | 1:A:22:GLN:H   | 14       | 10.03         |
| (1,1196) | 1:A:4:ASN:HB3   | 1:A:13:GLY:H   | 2        | 10.03         |
| (1,1187) | 1:A:4:ASN:HB3   | 1:A:10:GLY:HA3 | 13       | 10.03         |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG  | 4        | 10.03         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2  | 12       | 10.03         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3  | 12       | 10.03         |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 20       | 10.02         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 2        | 10.02         |
| (1,847)  | 1:A:3:PRO:HB3   | 1:A:13:GLY:H   | 6        | 10.02         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 10       | 10.02         |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 5        | 10.02         |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 5        | 10.02         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1 | 13       | 10.02         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2 | 13       | 10.02         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3 | 13       | 10.02         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1 | 13       | 10.02         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2 | 13       | 10.02         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3 | 13       | 10.02         |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 18       | 10.02         |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 18       | 10.02         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2 | 11       | 10.02         |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3 | 11       | 10.02         |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 16       | 10.02         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 8        | 10.02         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 8        | 10.02         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 12       | 10.02         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 12       | 10.02         |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 18       | 10.02         |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 18       | 10.02         |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 17       | 10.02         |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 17       | 10.02         |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 13       | 10.02         |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 13       | 10.02         |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 1        | 10.02         |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 13       | 10.02         |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 12       | 10.02         |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 4        | 10.02         |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 4        | 10.02         |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 6        | 10.02         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 8        | 10.02         |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 11       | 10.02         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 15       | 10.02         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE1  | 17       | 10.02         |
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2  | 17       | 10.02         |
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H    | 15       | 10.02         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 4        | 10.02         |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG   | 5        | 10.02         |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG   | 5        | 10.02         |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 8        | 10.02         |
| (1,3189) | 1:A:14:CYS:H   | 1:A:29:GLY:HA3  | 16       | 10.02         |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 4        | 10.02         |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 4        | 10.02         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 11       | 10.02         |
| (1,3139) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HE22 | 19       | 10.02         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 1        | 10.02         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 1        | 10.02         |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 10       | 10.02         |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 16       | 10.02         |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 13       | 10.02         |
| (1,2507) | 1:A:10:GLY:HA2 | 1:A:26:CYS:H    | 17       | 10.02         |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 16       | 10.02         |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 5        | 10.02         |
| (1,2159) | 1:A:9:PRO:HA   | 1:A:21:SER:HG   | 17       | 10.02         |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 16       | 10.02         |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 12       | 10.02         |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 12       | 10.02         |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 11       | 10.02         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 9        | 10.02         |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 10       | 10.02         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 3        | 10.02         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 6        | 10.02         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 12       | 10.02         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 7        | 10.02         |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 14       | 10.02         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 3        | 10.02         |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 3        | 10.02         |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 1        | 10.02         |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 1        | 10.02         |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 6        | 10.02         |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 17       | 10.02         |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 1        | 10.02         |
| (1,1187) | 1:A:4:ASN:HB3  | 1:A:10:GLY:HA3  | 17       | 10.02         |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H    | 12       | 10.02         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1 | 17       | 10.02         |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 17       | 10.02         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB2  | 16       | 10.02         |
| (1,1056) | 1:A:4:ASN:H     | 1:A:9:PRO:HB3  | 16       | 10.02         |
| (1,927)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:H   | 4        | 10.01         |
| (1,927)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:H   | 4        | 10.01         |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 17       | 10.01         |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 17       | 10.01         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 7        | 10.01         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 14       | 10.01         |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 18       | 10.01         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1 | 12       | 10.01         |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2 | 12       | 10.01         |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG  | 10       | 10.01         |
| (1,682)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HB3  | 9        | 10.01         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB1 | 14       | 10.01         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB2 | 14       | 10.01         |
| (1,591)  | 1:A:1:SER:HB2   | 1:A:34:ALA:HB3 | 14       | 10.01         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB1 | 14       | 10.01         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB2 | 14       | 10.01         |
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3 | 14       | 10.01         |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H   | 10       | 10.01         |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H   | 10       | 10.01         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 19       | 10.01         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 19       | 10.01         |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 19       | 10.01         |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 9        | 10.01         |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 9        | 10.01         |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 4        | 10.01         |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 4        | 10.01         |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 12       | 10.01         |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 13       | 10.01         |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 12       | 10.01         |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 17       | 10.01         |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 17       | 10.01         |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 17       | 10.01         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 6        | 10.01         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 6        | 10.01         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 6        | 10.01         |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 9        | 10.01         |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 9        | 10.01         |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 9        | 10.01         |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 7        | 10.01         |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 9        | 10.01         |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 11       | 10.01         |
| (1,3701) | 1:A:18:LEU:HB2 | 1:A:34:ALA:HA   | 10       | 10.01         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 3        | 10.01         |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 3        | 10.01         |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 8        | 10.01         |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 9        | 10.01         |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 2        | 10.01         |
| (1,3427) | 1:A:15:ARG:HE  | 1:A:20:CYS:H    | 3        | 10.01         |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H    | 4        | 10.01         |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H    | 4        | 10.01         |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG   | 10       | 10.01         |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG   | 10       | 10.01         |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 13       | 10.01         |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 10       | 10.01         |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 10       | 10.01         |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 5        | 10.01         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 10       | 10.01         |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 10       | 10.01         |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 11       | 10.01         |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 15       | 10.01         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 5        | 10.01         |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 5        | 10.01         |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 9        | 10.01         |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 18       | 10.01         |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 19       | 10.01         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 14       | 10.01         |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 14       | 10.01         |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 12       | 10.01         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 13       | 10.01         |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 13       | 10.01         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 8        | 10.01         |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 8        | 10.01         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 15       | 10.01         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 15       | 10.01         |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 15       | 10.01         |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 15       | 10.01         |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 3        | 10.01         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 2        | 10.01         |
| (1,1821) | 1:A:6:GLN:HE21 | 1:A:20:CYS:HB3  | 10       | 10.01         |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 16       | 10.01         |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1649) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HG2 | 12       | 10.01         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG2 | 7        | 10.01         |
| (1,1493) | 1:A:5:GLY:HA3   | 1:A:31:LYS:HG3 | 7        | 10.01         |
| (1,1478) | 1:A:5:GLY:HA3   | 1:A:16:GLY:H   | 3        | 10.01         |
| (1,1478) | 1:A:5:GLY:HA3   | 1:A:16:GLY:H   | 17       | 10.01         |
| (1,1399) | 1:A:5:GLY:H     | 1:A:9:PRO:HA   | 20       | 10.01         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD2  | 20       | 10.01         |
| (1,1326) | 1:A:4:ASN:HD22  | 1:A:9:PRO:HD3  | 20       | 10.01         |
| (1,1207) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HA  | 11       | 10.01         |
| (1,1197) | 1:A:4:ASN:HB3   | 1:A:13:GLY:HA3 | 5        | 10.01         |
| (1,1196) | 1:A:4:ASN:HB3   | 1:A:13:GLY:H   | 13       | 10.01         |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H   | 9        | 10.0          |
| (1,927)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:H   | 10       | 10.0          |
| (1,927)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:H   | 10       | 10.0          |
| (1,919)  | 1:A:3:PRO:HG2   | 1:A:21:SER:H   | 4        | 10.0          |
| (1,919)  | 1:A:3:PRO:HG3   | 1:A:21:SER:H   | 4        | 10.0          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA  | 3        | 10.0          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA  | 4        | 10.0          |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H    | 14       | 10.0          |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H   | 15       | 10.0          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 2        | 10.0          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 2        | 10.0          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 2        | 10.0          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 2        | 10.0          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1 | 1        | 10.0          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1 | 1        | 10.0          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1 | 5        | 10.0          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1 | 5        | 10.0          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 15       | 10.0          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 15       | 10.0          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA  | 19       | 10.0          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA  | 19       | 10.0          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 10       | 10.0          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 10       | 10.0          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 1        | 10.0          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 1        | 10.0          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 11       | 10.0          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 13       | 10.0          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 13       | 10.0          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 12       | 10.0          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 16       | 10.0          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 13       | 10.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4232) | 1:A:22:GLN:HB3 | 1:A:29:GLY:H    | 8        | 10.0          |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2  | 2        | 10.0          |
| (1,4174) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB2  | 1        | 10.0          |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 8        | 10.0          |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 9        | 10.0          |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 11       | 10.0          |
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 3        | 10.0          |
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 20       | 10.0          |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 8        | 10.0          |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 12       | 10.0          |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3  | 20       | 10.0          |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2  | 19       | 10.0          |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 19       | 10.0          |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE1  | 14       | 10.0          |
| (1,3304) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HE2  | 14       | 10.0          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H    | 12       | 10.0          |
| (1,2938) | 1:A:11:TRP:HZ2 | 1:A:13:GLY:HA3  | 17       | 10.0          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 2        | 10.0          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 8        | 10.0          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 8        | 10.0          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 10       | 10.0          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 10       | 10.0          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 10       | 10.0          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 10       | 10.0          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 20       | 10.0          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 18       | 10.0          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 18       | 10.0          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 10       | 10.0          |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 4        | 10.0          |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 5        | 10.0          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 9        | 10.0          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 14       | 10.0          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 20       | 10.0          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 6        | 10.0          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 6        | 10.0          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 8        | 10.0          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 8        | 10.0          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 2        | 10.0          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 16       | 10.0          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 9        | 10.0          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 9        | 10.0          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 9        | 10.0          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 9        | 10.0          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 9        | 10.0          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 9        | 10.0          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 4        | 10.0          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 4        | 10.0          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 8        | 10.0          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 2        | 10.0          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 14       | 10.0          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 14       | 10.0          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 3        | 10.0          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 3        | 10.0          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 19       | 10.0          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 6        | 10.0          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 6        | 10.0          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 20       | 10.0          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2   | 15       | 10.0          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3   | 15       | 10.0          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 4        | 10.0          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 5        | 10.0          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 5        | 10.0          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 9        | 10.0          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 1        | 10.0          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 1        | 10.0          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 4        | 9.99          |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 2        | 9.99          |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 2        | 9.99          |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H    | 3        | 9.99          |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H    | 3        | 9.99          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 3        | 9.99          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 3        | 9.99          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 8        | 9.99          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 8        | 9.99          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 14       | 9.99          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 14       | 9.99          |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H     | 6        | 9.99          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 13       | 9.99          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1  | 12       | 9.99          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2  | 12       | 9.99          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H    | 13       | 9.99          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H    | 4        | 9.99          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 3        | 9.99          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 3        | 9.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 13       | 9.99          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA   | 12       | 9.99          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1  | 1        | 9.99          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2  | 1        | 9.99          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3  | 1        | 9.99          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2  | 18       | 9.99          |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H    | 1        | 9.99          |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H    | 1        | 9.99          |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA   | 20       | 9.99          |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA   | 20       | 9.99          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA   | 3        | 9.99          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA   | 6        | 9.99          |
| (1,4447) | 1:A:24:GLY:H   | 1:A:29:GLY:H    | 10       | 9.99          |
| (1,4374) | 1:A:23:TYR:HB2 | 1:A:29:GLY:H    | 9        | 9.99          |
| (1,4255) | 1:A:22:GLN:HG3 | 1:A:27:GLY:HA2  | 18       | 9.99          |
| (1,4191) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA3  | 3        | 9.99          |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 12       | 9.99          |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 15       | 9.99          |
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 4        | 9.99          |
| (1,3738) | 1:A:18:LEU:HG  | 1:A:24:GLY:H    | 12       | 9.99          |
| (1,3701) | 1:A:18:LEU:HB2 | 1:A:34:ALA:HA   | 2        | 9.99          |
| (1,3701) | 1:A:18:LEU:HB2 | 1:A:34:ALA:HA   | 4        | 9.99          |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE21 | 6        | 9.99          |
| (1,3667) | 1:A:18:LEU:HA  | 1:A:22:GLN:HE22 | 6        | 9.99          |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 10       | 9.99          |
| (1,3594) | 1:A:17:GLY:HA2 | 1:A:21:SER:HG   | 20       | 9.99          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 9        | 9.99          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 9        | 9.99          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 9        | 9.99          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H    | 20       | 9.99          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H    | 20       | 9.99          |
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2  | 12       | 9.99          |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 12       | 9.99          |
| (1,3317) | 1:A:15:ARG:HB2 | 1:A:34:ALA:H    | 11       | 9.99          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 15       | 9.99          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 15       | 9.99          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 17       | 9.99          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 17       | 9.99          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 17       | 9.99          |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 1        | 9.99          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 5        | 9.99          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 14       | 9.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 14       | 9.99          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 14       | 9.99          |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE21 | 11       | 9.99          |
| (1,2654) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HE22 | 11       | 9.99          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 4        | 9.99          |
| (1,2644) | 1:A:11:TRP:HB2 | 1:A:18:LEU:H    | 17       | 9.99          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 17       | 9.99          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 17       | 9.99          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 17       | 9.99          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 17       | 9.99          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 10       | 9.99          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 15       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD11 | 17       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD12 | 17       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD13 | 17       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD21 | 17       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD22 | 17       | 9.99          |
| (1,2315) | 1:A:9:PRO:HG2  | 1:A:18:LEU:HD23 | 17       | 9.99          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 2        | 9.99          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 17       | 9.99          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 17       | 9.99          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 7        | 9.99          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 11       | 9.99          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 11       | 9.99          |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 9        | 9.99          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 17       | 9.99          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 7        | 9.99          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 19       | 9.99          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 12       | 9.99          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H    | 5        | 9.99          |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 5        | 9.99          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 17       | 9.99          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 17       | 9.99          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 18       | 9.99          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 6        | 9.99          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 6        | 9.99          |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 20       | 9.99          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA   | 20       | 9.99          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 11       | 9.99          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 12       | 9.99          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 3        | 9.99          |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 16       | 9.99          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1097) | 1:A:4:ASN:H     | 1:A:28:SER:H   | 18       | 9.99          |
| (1,1074) | 1:A:4:ASN:H     | 1:A:20:CYS:H   | 8        | 9.99          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 20       | 9.99          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 20       | 9.99          |
| (1,927)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:H   | 5        | 9.98          |
| (1,927)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:H   | 5        | 9.98          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 11       | 9.98          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 12       | 9.98          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2 | 13       | 9.98          |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H   | 20       | 9.98          |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 8        | 9.98          |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 15       | 9.98          |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H   | 16       | 9.98          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H   | 6        | 9.98          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 4        | 9.98          |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 15       | 9.98          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1 | 14       | 9.98          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2 | 14       | 9.98          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1 | 14       | 9.98          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2 | 14       | 9.98          |
| (1,517)  | 1:A:1:SER:HA    | 1:A:17:GLY:H   | 15       | 9.98          |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 15       | 9.98          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA  | 18       | 9.98          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA  | 18       | 9.98          |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG2 | 2        | 9.98          |
| (1,4566) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HG3 | 2        | 9.98          |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG2 | 2        | 9.98          |
| (1,4566) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HG3 | 2        | 9.98          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 6        | 9.98          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 8        | 9.98          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 10       | 9.98          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 5        | 9.98          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 9        | 9.98          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 7        | 9.98          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 8        | 9.98          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 8        | 9.98          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 19       | 9.98          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 19       | 9.98          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 20       | 9.98          |
| (1,4184) | 1:A:22:GLN:HG2  | 1:A:28:SER:HB2 | 15       | 9.98          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 12       | 9.98          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 10       | 9.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H   | 1        | 9.98          |
| (1,4099) | 1:A:21:SER:HG  | 1:A:35:HIS:H   | 13       | 9.98          |
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H   | 19       | 9.98          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1 | 13       | 9.98          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2 | 13       | 9.98          |
| (1,3701) | 1:A:18:LEU:HB2 | 1:A:34:ALA:HA  | 15       | 9.98          |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3 | 11       | 9.98          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 2        | 9.98          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 2        | 9.98          |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 9        | 9.98          |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 9        | 9.98          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2 | 12       | 9.98          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3 | 12       | 9.98          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3 | 15       | 9.98          |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1 | 1        | 9.98          |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2 | 1        | 9.98          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H   | 8        | 9.98          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H   | 18       | 9.98          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H   | 4        | 9.98          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H   | 6        | 9.98          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 6        | 9.98          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 6        | 9.98          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 4        | 9.98          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 4        | 9.98          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 6        | 9.98          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 6        | 9.98          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 6        | 9.98          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 6        | 9.98          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H   | 2        | 9.98          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H   | 5        | 9.98          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 15       | 9.98          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 15       | 9.98          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 19       | 9.98          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 19       | 9.98          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA  | 7        | 9.98          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA  | 8        | 9.98          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA  | 16       | 9.98          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA  | 18       | 9.98          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA  | 19       | 9.98          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1 | 7        | 9.98          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2 | 7        | 9.98          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 3        | 9.98          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 16       | 9.98          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 5        | 9.98          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 5        | 9.98          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 17       | 9.98          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 17       | 9.98          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 8        | 9.98          |
| (1,1875) | 1:A:6:GLN:HE22 | 1:A:14:CYS:H    | 14       | 9.98          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 1        | 9.98          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 18       | 9.98          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 11       | 9.98          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 17       | 9.98          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 2        | 9.98          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 2        | 9.98          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 17       | 9.98          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 17       | 9.98          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 20       | 9.98          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 20       | 9.98          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 17       | 9.98          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 17       | 9.98          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 7        | 9.98          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 8        | 9.98          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 12       | 9.98          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 15       | 9.98          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 10       | 9.98          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 10       | 9.98          |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 1        | 9.98          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1  | 4        | 9.98          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2  | 4        | 9.98          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3  | 4        | 9.98          |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 2        | 9.98          |
| (1,1197) | 1:A:4:ASN:HB3  | 1:A:13:GLY:HA3  | 6        | 9.98          |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 20       | 9.98          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 6        | 9.98          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 6        | 9.98          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 8        | 9.97          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 8        | 9.97          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 8        | 9.97          |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 5        | 9.97          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 1        | 9.97          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 1        | 9.97          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 3        | 9.97          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 3        | 9.97          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 15       | 9.97          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 9        | 9.97          |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2  | 4        | 9.97          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 3        | 9.97          |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1  | 7        | 9.97          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 2        | 9.97          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 2        | 9.97          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 8        | 9.97          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 4        | 9.97          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 4        | 9.97          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 8        | 9.97          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 8        | 9.97          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 13       | 9.97          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 2        | 9.97          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H    | 1        | 9.97          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 16       | 9.97          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 9        | 9.97          |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2  | 20       | 9.97          |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 18       | 9.97          |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 19       | 9.97          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 15       | 9.97          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 15       | 9.97          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 10       | 9.97          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 10       | 9.97          |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE1  | 20       | 9.97          |
| (1,3487) | 1:A:16:GLY:H    | 1:A:32:TYR:HE2  | 20       | 9.97          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 7        | 9.97          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2  | 8        | 9.97          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3  | 8        | 9.97          |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 1        | 9.97          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 4        | 9.97          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 7        | 9.97          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 16       | 9.97          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 19       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 12       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 12       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 12       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 15       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 15       | 9.97          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 15       | 9.97          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 2        | 9.97          |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 1        | 9.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 3        | 9.97          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 2        | 9.97          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 2        | 9.97          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 3        | 9.97          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 3        | 9.97          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG2  | 18       | 9.97          |
| (1,2530) | 1:A:10:GLY:HA3 | 1:A:15:ARG:HG3  | 18       | 9.97          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 11       | 9.97          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 11       | 9.97          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 5        | 9.97          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 5        | 9.97          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 6        | 9.97          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 11       | 9.97          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 11       | 9.97          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 11       | 9.97          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 9        | 9.97          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 9        | 9.97          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 2        | 9.97          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 2        | 9.97          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 8        | 9.97          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H    | 2        | 9.97          |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H    | 2        | 9.97          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 11       | 9.97          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 16       | 9.97          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 2        | 9.97          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 2        | 9.97          |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 1        | 9.97          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 6        | 9.97          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 13       | 9.97          |
| (1,1097) | 1:A:4:ASN:H    | 1:A:28:SER:H    | 19       | 9.97          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 18       | 9.97          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 20       | 9.97          |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB2   | 9        | 9.97          |
| (1,1056) | 1:A:4:ASN:H    | 1:A:9:PRO:HB3   | 9        | 9.97          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA   | 6        | 9.96          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 14       | 9.96          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 13       | 9.96          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 13       | 9.96          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 15       | 9.96          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 15       | 9.96          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H    | 3        | 9.96          |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG   | 17       | 9.96          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2 | 1        | 9.96          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3 | 1        | 9.96          |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 2        | 9.96          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA  | 6        | 9.96          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 11       | 9.96          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 11       | 9.96          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 16       | 9.96          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 16       | 9.96          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 13       | 9.96          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 13       | 9.96          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 10       | 9.96          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 14       | 9.96          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 18       | 9.96          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 3        | 9.96          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 18       | 9.96          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 18       | 9.96          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 18       | 9.96          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 5        | 9.96          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 13       | 9.96          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 1        | 9.96          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 13       | 9.96          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 8        | 9.96          |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 9        | 9.96          |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 9        | 9.96          |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA  | 7        | 9.96          |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA  | 7        | 9.96          |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 13       | 9.96          |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 13       | 9.96          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 15       | 9.96          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 15       | 9.96          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 15       | 9.96          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H   | 10       | 9.96          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H   | 20       | 9.96          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 3        | 9.96          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 4        | 9.96          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 5        | 9.96          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3 | 10       | 9.96          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2 | 17       | 9.96          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3 | 17       | 9.96          |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG  | 10       | 9.96          |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG2 | 12       | 9.96          |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG3 | 12       | 9.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 6        | 9.96          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 3        | 9.96          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 4        | 9.96          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 16       | 9.96          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 16       | 9.96          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 10       | 9.96          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 10       | 9.96          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 15       | 9.96          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 15       | 9.96          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 7        | 9.96          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 18       | 9.96          |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 10       | 9.96          |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 10       | 9.96          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 16       | 9.96          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 16       | 9.96          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 2        | 9.96          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 2        | 9.96          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 11       | 9.96          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 15       | 9.96          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 1        | 9.96          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 13       | 9.96          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 20       | 9.96          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 6        | 9.96          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 5        | 9.96          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 5        | 9.96          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 1        | 9.96          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 1        | 9.96          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 2        | 9.96          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 2        | 9.96          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 1        | 9.96          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 1        | 9.96          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 16       | 9.96          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 16       | 9.96          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 6        | 9.96          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 6        | 9.96          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 10       | 9.96          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 10       | 9.96          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 10       | 9.96          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 10       | 9.96          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 13       | 9.96          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 13       | 9.96          |
| (1,1214) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HE21 | 16       | 9.96          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1214) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HE22 | 16       | 9.96          |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG   | 17       | 9.96          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2  | 3        | 9.96          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3  | 3        | 9.96          |
| (1,1074) | 1:A:4:ASN:H     | 1:A:20:CYS:H    | 16       | 9.96          |
| (1,1074) | 1:A:4:ASN:H     | 1:A:20:CYS:H    | 19       | 9.96          |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 3        | 9.95          |
| (1,837)  | 1:A:3:PRO:HB3   | 1:A:8:GLY:H     | 5        | 9.95          |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 16       | 9.95          |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 18       | 9.95          |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H    | 12       | 9.95          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 5        | 9.95          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 10       | 9.95          |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1  | 11       | 9.95          |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2  | 11       | 9.95          |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 8        | 9.95          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 4        | 9.95          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 4        | 9.95          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 1        | 9.95          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 5        | 9.95          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 13       | 9.95          |
| (1,622)  | 1:A:2:GLY:H     | 1:A:16:GLY:H    | 11       | 9.95          |
| (1,4555) | 1:A:25:TYR:HB3  | 1:A:35:HIS:HD2  | 11       | 9.95          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 13       | 9.95          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 13       | 9.95          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 13       | 9.95          |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 3        | 9.95          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 4        | 9.95          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 15       | 9.95          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 10       | 9.95          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 10       | 9.95          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 9        | 9.95          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 12       | 9.95          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 18       | 9.95          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 12       | 9.95          |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 17       | 9.95          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 6        | 9.95          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3  | 16       | 9.95          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 17       | 9.95          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 16       | 9.95          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 6        | 9.95          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 11       | 9.95          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 11       | 9.95          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 7        | 9.95          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 7        | 9.95          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 7        | 9.95          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 7        | 9.95          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 7        | 9.95          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 7        | 9.95          |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3  | 10       | 9.95          |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 7        | 9.95          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H    | 15       | 9.95          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 1        | 9.95          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 1        | 9.95          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 20       | 9.95          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 20       | 9.95          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 6        | 9.95          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 6        | 9.95          |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2  | 10       | 9.95          |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3  | 12       | 9.95          |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB2  | 17       | 9.95          |
| (1,3034) | 1:A:12:GLY:H    | 1:A:32:TYR:HB3  | 17       | 9.95          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H    | 2        | 9.95          |
| (1,2938) | 1:A:11:TRP:HZ2  | 1:A:13:GLY:HA3  | 6        | 9.95          |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE21 | 19       | 9.95          |
| (1,2654) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HE22 | 19       | 9.95          |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2  | 3        | 9.95          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2  | 15       | 9.95          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3  | 15       | 9.95          |
| (1,2553) | 1:A:10:GLY:HA3  | 1:A:26:CYS:H    | 14       | 9.95          |
| (1,2402) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HA   | 10       | 9.95          |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 8        | 9.95          |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 14       | 9.95          |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE1  | 20       | 9.95          |
| (1,2269) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HE2  | 20       | 9.95          |
| (1,2268) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HD1  | 18       | 9.95          |
| (1,2268) | 1:A:9:PRO:HB3   | 1:A:25:TYR:HD2  | 18       | 9.95          |
| (1,2214) | 1:A:9:PRO:HB2   | 1:A:22:GLN:HA   | 6        | 9.95          |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD11 | 13       | 9.95          |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD12 | 13       | 9.95          |
| (1,2154) | 1:A:9:PRO:HA    | 1:A:18:LEU:HD13 | 13       | 9.95          |
| (1,2101) | 1:A:8:GLY:HA2   | 1:A:32:TYR:HE1  | 8        | 9.95          |
| (1,2101) | 1:A:8:GLY:HA2   | 1:A:32:TYR:HE2  | 8        | 9.95          |
| (1,2033) | 1:A:8:GLY:H     | 1:A:16:GLY:H    | 17       | 9.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 19       | 9.95          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 1        | 9.95          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 11       | 9.95          |
| (1,1933) | 1:A:7:CYS:H    | 1:A:16:GLY:H   | 14       | 9.95          |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3 | 4        | 9.95          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA  | 16       | 9.95          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 8        | 9.95          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 9        | 9.95          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 16       | 9.95          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA  | 19       | 9.95          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1 | 2        | 9.95          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2 | 2        | 9.95          |
| (1,1427) | 1:A:5:GLY:H    | 1:A:22:GLN:H   | 10       | 9.95          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA   | 13       | 9.95          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2 | 8        | 9.95          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3 | 8        | 9.95          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD2  | 9        | 9.95          |
| (1,1326) | 1:A:4:ASN:HD22 | 1:A:9:PRO:HD3  | 9        | 9.95          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 10       | 9.95          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H   | 9        | 9.95          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H   | 8        | 9.95          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2  | 10       | 9.95          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3  | 10       | 9.95          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H   | 20       | 9.94          |
| (1,927)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:H   | 6        | 9.94          |
| (1,927)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:H   | 6        | 9.94          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H   | 6        | 9.94          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H   | 6        | 9.94          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H   | 20       | 9.94          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H   | 20       | 9.94          |
| (1,837)  | 1:A:3:PRO:HB3  | 1:A:8:GLY:H    | 10       | 9.94          |
| (1,782)  | 1:A:3:PRO:HB2  | 1:A:12:GLY:H   | 13       | 9.94          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 9.94          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 9.94          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 3        | 9.94          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 10       | 9.94          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 10       | 9.94          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1 | 4        | 9.94          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1 | 4        | 9.94          |
| (1,4659) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HG3 | 16       | 9.94          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 7        | 9.94          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 9.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 1        | 9.94          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 3        | 9.94          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 3        | 9.94          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 7        | 9.94          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 7        | 9.94          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 15       | 9.94          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 15       | 9.94          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 1        | 9.94          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 8        | 9.94          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 9        | 9.94          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H   | 15       | 9.94          |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 7        | 9.94          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 8        | 9.94          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 8        | 9.94          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H   | 8        | 9.94          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H   | 8        | 9.94          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 16       | 9.94          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 16       | 9.94          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 9        | 9.94          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 9        | 9.94          |
| (1,3294) | 1:A:15:ARG:HB2  | 1:A:21:SER:HB3 | 5        | 9.94          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 12       | 9.94          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 12       | 9.94          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 12       | 9.94          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3 | 12       | 9.94          |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG  | 1        | 9.94          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD1 | 17       | 9.94          |
| (1,3035) | 1:A:12:GLY:H    | 1:A:32:TYR:HD2 | 17       | 9.94          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H   | 3        | 9.94          |
| (1,3007) | 1:A:12:GLY:H    | 1:A:23:TYR:H   | 9        | 9.94          |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB2 | 17       | 9.94          |
| (1,2848) | 1:A:11:TRP:HE1  | 1:A:18:LEU:HB3 | 17       | 9.94          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H   | 3        | 9.94          |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2 | 11       | 9.94          |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3 | 11       | 9.94          |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2 | 4        | 9.94          |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2 | 6        | 9.94          |
| (1,2421) | 1:A:9:PRO:HG3   | 1:A:35:HIS:HD2 | 3        | 9.94          |
| (1,2402) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HA  | 5        | 9.94          |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1 | 9        | 9.94          |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD2 | 9        | 9.94          |
| (1,2393) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HD1 | 10       | 9.94          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 10       | 9.94          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 3        | 9.94          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 4        | 9.94          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 13       | 9.94          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 12       | 9.94          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 1        | 9.94          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 1        | 9.94          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 20       | 9.94          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 9        | 9.94          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 9        | 9.94          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 4        | 9.94          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 4        | 9.94          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 20       | 9.94          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 4        | 9.94          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 15       | 9.94          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 4        | 9.94          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 7        | 9.94          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 18       | 9.94          |
| (1,1711) | 1:A:6:GLN:HG2  | 1:A:19:CYS:HA   | 20       | 9.94          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 4        | 9.94          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 4        | 9.94          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 4        | 9.94          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 17       | 9.94          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 17       | 9.94          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 4        | 9.94          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 4        | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 4        | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 4        | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 6        | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 6        | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 10       | 9.94          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 10       | 9.94          |
| (1,1399) | 1:A:5:GLY:H    | 1:A:9:PRO:HA    | 9        | 9.94          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 7        | 9.94          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 7        | 9.94          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 1        | 9.94          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 2        | 9.94          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 5        | 9.94          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 5        | 9.94          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 18       | 9.94          |
| (1,1074) | 1:A:4:ASN:H    | 1:A:20:CYS:H    | 7        | 9.94          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 20       | 9.94          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3  | 20       | 9.94          |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 14       | 9.93          |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 16       | 9.93          |
| (1,919)  | 1:A:3:PRO:HG2   | 1:A:21:SER:H    | 16       | 9.93          |
| (1,919)  | 1:A:3:PRO:HG3   | 1:A:21:SER:H    | 16       | 9.93          |
| (1,919)  | 1:A:3:PRO:HG2   | 1:A:21:SER:H    | 18       | 9.93          |
| (1,919)  | 1:A:3:PRO:HG3   | 1:A:21:SER:H    | 18       | 9.93          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2  | 1        | 9.93          |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 19       | 9.93          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 1        | 9.93          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 17       | 9.93          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 11       | 9.93          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 11       | 9.93          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1  | 17       | 9.93          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1  | 17       | 9.93          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 17       | 9.93          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 13       | 9.93          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 13       | 9.93          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 13       | 9.93          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 13       | 9.93          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 2        | 9.93          |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 20       | 9.93          |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 20       | 9.93          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 17       | 9.93          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H    | 3        | 9.93          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 1        | 9.93          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 1        | 9.93          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 16       | 9.93          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 16       | 9.93          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 11       | 9.93          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 1        | 9.93          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 6        | 9.93          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 12       | 9.93          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 12       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 19       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 19       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 19       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 19       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 19       | 9.93          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 19       | 9.93          |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 6        | 9.93          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3  | 13       | 9.93          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG2  | 6        | 9.93          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG3  | 6        | 9.93          |
| (1,3584) | 1:A:17:GLY:H   | 1:A:34:ALA:HA   | 3        | 9.93          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE1  | 18       | 9.93          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2  | 18       | 9.93          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1  | 18       | 9.93          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2  | 18       | 9.93          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1  | 19       | 9.93          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2  | 19       | 9.93          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H    | 14       | 9.93          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H    | 14       | 9.93          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 5        | 9.93          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 5        | 9.93          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 19       | 9.93          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 19       | 9.93          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 19       | 9.93          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 19       | 9.93          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 10       | 9.93          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 6        | 9.93          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 11       | 9.93          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 14       | 9.93          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H    | 6        | 9.93          |
| (1,2781) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HA   | 11       | 9.93          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 4        | 9.93          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 3        | 9.93          |
| (1,2736) | 1:A:11:TRP:HD1 | 1:A:19:CYS:H    | 17       | 9.93          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 20       | 9.93          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 20       | 9.93          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 16       | 9.93          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 16       | 9.93          |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 2        | 9.93          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 19       | 9.93          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 19       | 9.93          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 6        | 9.93          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 12       | 9.93          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 12       | 9.93          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 9        | 9.93          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 8        | 9.93          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 18       | 9.93          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 19       | 9.93          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 8        | 9.93          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 8        | 9.93          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 8        | 9.93          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 13       | 9.93          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 3        | 9.93          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 3        | 9.93          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 5        | 9.93          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 5        | 9.93          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 3        | 9.93          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 3        | 9.93          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 5        | 9.93          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 5        | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 5        | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 5        | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 10       | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 10       | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 18       | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 18       | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 19       | 9.93          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 19       | 9.93          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2  | 14       | 9.93          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3  | 14       | 9.93          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 14       | 9.93          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 2        | 9.93          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 2        | 9.93          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 18       | 9.93          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 19       | 9.93          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 5        | 9.93          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 5        | 9.93          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 15       | 9.93          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 15       | 9.93          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 2        | 9.92          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 2        | 9.92          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 5        | 9.92          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 5        | 9.92          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 10       | 9.92          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 10       | 9.92          |
| (1,847)  | 1:A:3:PRO:HB3  | 1:A:13:GLY:H    | 10       | 9.92          |
| (1,782)  | 1:A:3:PRO:HB2  | 1:A:12:GLY:H    | 11       | 9.92          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 2        | 9.92          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 2        | 9.92          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 2        | 9.92          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 2        | 9.92          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 2        | 9.92          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB3   | 1:A:34:ALA:HB3 | 2        | 9.92          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2 | 13       | 9.92          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3 | 13       | 9.92          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2 | 6        | 9.92          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2 | 6        | 9.92          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 6        | 9.92          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 6        | 9.92          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 15       | 9.92          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3 | 17       | 9.92          |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 18       | 9.92          |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 19       | 9.92          |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H   | 20       | 9.92          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 15       | 9.92          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 15       | 9.92          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 15       | 9.92          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 15       | 9.92          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3 | 3        | 9.92          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3 | 3        | 9.92          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H   | 16       | 9.92          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 8        | 9.92          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 8        | 9.92          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 19       | 9.92          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 1        | 9.92          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 10       | 9.92          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 9        | 9.92          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 14       | 9.92          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 2        | 9.92          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 2        | 9.92          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 2        | 9.92          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 6        | 9.92          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 6        | 9.92          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 19       | 9.92          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 19       | 9.92          |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2 | 3        | 9.92          |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2 | 3        | 9.92          |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2 | 3        | 9.92          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 8        | 9.92          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 8        | 9.92          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 11       | 9.92          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 19       | 9.92          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2 | 19       | 9.92          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 17       | 9.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H    | 17       | 9.92          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 1        | 9.92          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 1        | 9.92          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 10       | 9.92          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 10       | 9.92          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 15       | 9.92          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H    | 5        | 9.92          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 6        | 9.92          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H    | 13       | 9.92          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 17       | 9.92          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 18       | 9.92          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 18       | 9.92          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 19       | 9.92          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 19       | 9.92          |
| (1,2555) | 1:A:10:GLY:HA3 | 1:A:26:CYS:HB2  | 17       | 9.92          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 20       | 9.92          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 20       | 9.92          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 1        | 9.92          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 1        | 9.92          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 1        | 9.92          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 5        | 9.92          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 5        | 9.92          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 8        | 9.92          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H    | 9        | 9.92          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 2        | 9.92          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 3        | 9.92          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2  | 2        | 9.92          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3  | 2        | 9.92          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 5        | 9.92          |
| (1,1258) | 1:A:4:ASN:HD21 | 1:A:12:GLY:HA2  | 9        | 9.92          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 16       | 9.92          |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 9        | 9.92          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 7        | 9.91          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H    | 18       | 9.91          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 7        | 9.91          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 7        | 9.91          |
| (1,919)  | 1:A:3:PRO:HG2  | 1:A:21:SER:H    | 19       | 9.91          |
| (1,919)  | 1:A:3:PRO:HG3  | 1:A:21:SER:H    | 19       | 9.91          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H    | 14       | 9.91          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 6        | 9.91          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 6        | 9.91          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H    | 15       | 9.91          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H    | 14       | 9.91          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 13       | 9.91          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 13       | 9.91          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 15       | 9.91          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 15       | 9.91          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 16       | 9.91          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 16       | 9.91          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 5        | 9.91          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 12       | 9.91          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 10       | 9.91          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 13       | 9.91          |
| (1,4447) | 1:A:24:GLY:H    | 1:A:29:GLY:H    | 16       | 9.91          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 8        | 9.91          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 8        | 9.91          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 8        | 9.91          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 8        | 9.91          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 12       | 9.91          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 12       | 9.91          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2  | 12       | 9.91          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3  | 12       | 9.91          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 5        | 9.91          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 12       | 9.91          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 7        | 9.91          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 7        | 9.91          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 7        | 9.91          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 6        | 9.91          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 17       | 9.91          |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 5        | 9.91          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 3        | 9.91          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 3        | 9.91          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 8        | 9.91          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 8        | 9.91          |
| (1,3594) | 1:A:17:GLY:HA2  | 1:A:21:SER:HG   | 16       | 9.91          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 16       | 9.91          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 16       | 9.91          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 5        | 9.91          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 5        | 9.91          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 20       | 9.91          |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H    | 14       | 9.91          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H    | 3        | 9.91          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 8        | 9.91          |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 11       | 9.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 1        | 9.91          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 1        | 9.91          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 1        | 9.91          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB2  | 13       | 9.91          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB3  | 13       | 9.91          |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 3        | 9.91          |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 3        | 9.91          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 4        | 9.91          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 4        | 9.91          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 2        | 9.91          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 10       | 9.91          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 5        | 9.91          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 5        | 9.91          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 10       | 9.91          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 10       | 9.91          |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 6        | 9.91          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 11       | 9.91          |
| (1,2225) | 1:A:9:PRO:HB2  | 1:A:26:CYS:H    | 17       | 9.91          |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD1  | 17       | 9.91          |
| (1,2218) | 1:A:9:PRO:HB2  | 1:A:23:TYR:HD2  | 17       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 1        | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 1        | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 11       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 11       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 12       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 12       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 13       | 9.91          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 13       | 9.91          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 14       | 9.91          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 9        | 9.91          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 14       | 9.91          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 3        | 9.91          |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE   | 1        | 9.91          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 11       | 9.91          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 14       | 9.91          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 14       | 9.91          |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 9        | 9.91          |
| (1,1321) | 1:A:4:ASN:HD22 | 1:A:8:GLY:H     | 15       | 9.91          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 9        | 9.91          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 9        | 9.91          |
| (1,1196) | 1:A:4:ASN:HB3  | 1:A:13:GLY:H    | 7        | 9.91          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H    | 8        | 9.91          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1066) | 1:A:4:ASN:H     | 1:A:15:ARG:HE   | 14       | 9.91          |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG2  | 15       | 9.91          |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3  | 15       | 9.91          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2   | 13       | 9.91          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3   | 13       | 9.91          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2   | 14       | 9.91          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3   | 14       | 9.91          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3  | 16       | 9.9           |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 19       | 9.9           |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 2        | 9.9           |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2  | 15       | 9.9           |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 7        | 9.9           |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1  | 8        | 9.9           |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2  | 8        | 9.9           |
| (1,590)  | 1:A:1:SER:HB2   | 1:A:33:CYS:H    | 16       | 9.9           |
| (1,590)  | 1:A:1:SER:HB3   | 1:A:33:CYS:H    | 16       | 9.9           |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1  | 3        | 9.9           |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1  | 4        | 9.9           |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1  | 4        | 9.9           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 5        | 9.9           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 5        | 9.9           |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 17       | 9.9           |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 17       | 9.9           |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 17       | 9.9           |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 17       | 9.9           |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 13       | 9.9           |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 13       | 9.9           |
| (1,4392) | 1:A:23:TYR:HB3  | 1:A:35:HIS:HE1  | 17       | 9.9           |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 12       | 9.9           |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2  | 7        | 9.9           |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2  | 1        | 9.9           |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3  | 1        | 9.9           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 2        | 9.9           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 2        | 9.9           |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H    | 10       | 9.9           |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 6        | 9.9           |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 6        | 9.9           |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 11       | 9.9           |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 11       | 9.9           |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H    | 7        | 9.9           |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H    | 7        | 9.9           |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 11       | 9.9           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3  | 11       | 9.9           |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 6        | 9.9           |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE1  | 20       | 9.9           |
| (1,3203) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HE2  | 20       | 9.9           |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 12       | 9.9           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 2        | 9.9           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 2        | 9.9           |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 16       | 9.9           |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 16       | 9.9           |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 2        | 9.9           |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 10       | 9.9           |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 14       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 15       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 15       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 15       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 15       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 15       | 9.9           |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 15       | 9.9           |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H    | 1        | 9.9           |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1  | 1        | 9.9           |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2  | 1        | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 10       | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 10       | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 13       | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 13       | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 15       | 9.9           |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 15       | 9.9           |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA   | 3        | 9.9           |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 15       | 9.9           |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 10       | 9.9           |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 10       | 9.9           |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 19       | 9.9           |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 12       | 9.9           |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 6        | 9.9           |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 6        | 9.9           |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 4        | 9.9           |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 4        | 9.9           |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 5        | 9.9           |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 4        | 9.9           |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 6        | 9.9           |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 13       | 9.9           |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 13       | 9.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB3 | 13       | 9.9           |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG2 | 20       | 9.9           |
| (1,1577) | 1:A:6:GLN:HA    | 1:A:31:LYS:HG3 | 20       | 9.9           |
| (1,1415) | 1:A:5:GLY:H     | 1:A:15:ARG:HE  | 10       | 9.9           |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2 | 5        | 9.9           |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3 | 5        | 9.9           |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2 | 15       | 9.9           |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3 | 15       | 9.9           |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2 | 15       | 9.9           |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3 | 15       | 9.9           |
| (1,1213) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HA  | 13       | 9.9           |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H   | 1        | 9.9           |
| (1,1196) | 1:A:4:ASN:HB3   | 1:A:13:GLY:H   | 16       | 9.9           |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 7        | 9.9           |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2 | 6        | 9.9           |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3 | 6        | 9.9           |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2 | 14       | 9.9           |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3 | 14       | 9.9           |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG2 | 18       | 9.9           |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3 | 18       | 9.9           |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2 | 18       | 9.89          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3 | 18       | 9.89          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2 | 19       | 9.89          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3 | 19       | 9.89          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA  | 5        | 9.89          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H   | 20       | 9.89          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1 | 11       | 9.89          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2 | 11       | 9.89          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 11       | 9.89          |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 11       | 9.89          |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG  | 13       | 9.89          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2 | 14       | 9.89          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3 | 14       | 9.89          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 6        | 9.89          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 6        | 9.89          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 14       | 9.89          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 14       | 9.89          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 5        | 9.89          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 20       | 9.89          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 9        | 9.89          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 9        | 9.89          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 9        | 9.89          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ3  | 9        | 9.89          |
| (1,3701) | 1:A:18:LEU:HB2 | 1:A:34:ALA:HA   | 8        | 9.89          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD1  | 11       | 9.89          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD2  | 11       | 9.89          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE1  | 11       | 9.89          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2  | 11       | 9.89          |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2  | 4        | 9.89          |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 4        | 9.89          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 13       | 9.89          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 13       | 9.89          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 13       | 9.89          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE1  | 16       | 9.89          |
| (1,3487) | 1:A:16:GLY:H   | 1:A:32:TYR:HE2  | 16       | 9.89          |
| (1,3477) | 1:A:16:GLY:H   | 1:A:29:GLY:HA3  | 20       | 9.89          |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 19       | 9.89          |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 19       | 9.89          |
| (1,3353) | 1:A:15:ARG:HB3 | 1:A:34:ALA:H    | 13       | 9.89          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 7        | 9.89          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 7        | 9.89          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3  | 15       | 9.89          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 20       | 9.89          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 20       | 9.89          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 2        | 9.89          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 2        | 9.89          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 5        | 9.89          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 5        | 9.89          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1  | 17       | 9.89          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2  | 17       | 9.89          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3  | 17       | 9.89          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 8        | 9.89          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 9        | 9.89          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 13       | 9.89          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 5        | 9.89          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 5        | 9.89          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 5        | 9.89          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 5        | 9.89          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 2        | 9.89          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 2        | 9.89          |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 4        | 9.89          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 11       | 9.89          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 11       | 9.89          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 13       | 9.89          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2082) | 1:A:8:GLY:HA2   | 1:A:15:ARG:HG3  | 13       | 9.89          |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG2  | 3        | 9.89          |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG3  | 3        | 9.89          |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB1  | 2        | 9.89          |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB2  | 2        | 9.89          |
| (1,1583) | 1:A:6:GLN:HA    | 1:A:34:ALA:HB3  | 2        | 9.89          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE21 | 8        | 9.89          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE22 | 8        | 9.89          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE21 | 13       | 9.89          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE22 | 13       | 9.89          |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H    | 9        | 9.89          |
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H    | 6        | 9.89          |
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H    | 10       | 9.89          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 10       | 9.88          |
| (1,782)  | 1:A:3:PRO:HB2   | 1:A:12:GLY:H    | 9        | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 7        | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 7        | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 8        | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 8        | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 15       | 9.88          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 15       | 9.88          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 8        | 9.88          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 9        | 9.88          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 9        | 9.88          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 13       | 9.88          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 13       | 9.88          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 5        | 9.88          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 5        | 9.88          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 17       | 9.88          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 17       | 9.88          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 1        | 9.88          |
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 4        | 9.88          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 7        | 9.88          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 7        | 9.88          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 7        | 9.88          |
| (1,4257) | 1:A:22:GLN:HG3  | 1:A:28:SER:HB3  | 1        | 9.88          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 19       | 9.88          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2  | 6        | 9.88          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3  | 6        | 9.88          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 20       | 9.88          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 10       | 9.88          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 4        | 9.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3854) | 1:A:19:CYS:HA  | 1:A:22:GLN:HE22 | 4        | 9.88          |
| (1,3851) | 1:A:19:CYS:HA  | 1:A:22:GLN:HG2  | 13       | 9.88          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1  | 8        | 9.88          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2  | 8        | 9.88          |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 1        | 9.88          |
| (1,3586) | 1:A:17:GLY:H   | 1:A:35:HIS:H    | 13       | 9.88          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 20       | 9.88          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 20       | 9.88          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 20       | 9.88          |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H    | 10       | 9.88          |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H    | 4        | 9.88          |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H    | 4        | 9.88          |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA   | 1        | 9.88          |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA   | 1        | 9.88          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 17       | 9.88          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 18       | 9.88          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 19       | 9.88          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 7        | 9.88          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE21 | 11       | 9.88          |
| (1,3155) | 1:A:13:GLY:HA3 | 1:A:22:GLN:HE22 | 11       | 9.88          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 20       | 9.88          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 11       | 9.88          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 11       | 9.88          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 11       | 9.88          |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB2  | 14       | 9.88          |
| (1,2860) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HB3  | 14       | 9.88          |
| (1,2599) | 1:A:11:TRP:H   | 1:A:27:GLY:H    | 17       | 9.88          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 3        | 9.88          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 6        | 9.88          |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2  | 6        | 9.88          |
| (1,2402) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HA   | 3        | 9.88          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 12       | 9.88          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 2        | 9.88          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 2        | 9.88          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD11 | 17       | 9.88          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD12 | 17       | 9.88          |
| (1,2154) | 1:A:9:PRO:HA   | 1:A:18:LEU:HD13 | 17       | 9.88          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 7        | 9.88          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 15       | 9.88          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 3        | 9.88          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 3        | 9.88          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 18       | 9.88          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1524) | 1:A:6:GLN:H     | 1:A:22:GLN:HA   | 17       | 9.88          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD2  | 4        | 9.88          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD3  | 4        | 9.88          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2  | 13       | 9.88          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3  | 13       | 9.88          |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG2   | 2        | 9.88          |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG3   | 2        | 9.88          |
| (1,1258) | 1:A:4:ASN:HD21  | 1:A:12:GLY:HA2  | 15       | 9.88          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2  | 11       | 9.88          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3  | 11       | 9.88          |
| (1,1213) | 1:A:4:ASN:HB3   | 1:A:22:GLN:HA   | 19       | 9.88          |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H    | 15       | 9.88          |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H    | 1        | 9.88          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2   | 20       | 9.88          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3   | 20       | 9.88          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3  | 9        | 9.87          |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 2        | 9.87          |
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 6        | 9.87          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 13       | 9.87          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2  | 8        | 9.87          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 1        | 9.87          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 1        | 9.87          |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H    | 9        | 9.87          |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG   | 15       | 9.87          |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H    | 17       | 9.87          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 6        | 9.87          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 6        | 9.87          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 12       | 9.87          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 12       | 9.87          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1  | 17       | 9.87          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1  | 17       | 9.87          |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 10       | 9.87          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 4        | 9.87          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 4        | 9.87          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 8        | 9.87          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 8        | 9.87          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 11       | 9.87          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 14       | 9.87          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 11       | 9.87          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 11       | 9.87          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 8        | 9.87          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 8        | 9.87          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3823) | 1:A:19:CYS:H   | 1:A:22:GLN:HE21 | 9        | 9.87          |
| (1,3823) | 1:A:19:CYS:H   | 1:A:22:GLN:HE22 | 9        | 9.87          |
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H    | 11       | 9.87          |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H    | 15       | 9.87          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE1  | 7        | 9.87          |
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2  | 7        | 9.87          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2  | 11       | 9.87          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3  | 11       | 9.87          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG2  | 13       | 9.87          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG3  | 13       | 9.87          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2  | 4        | 9.87          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3  | 4        | 9.87          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 4        | 9.87          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 4        | 9.87          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 4        | 9.87          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 4        | 9.87          |
| (1,3356) | 1:A:15:ARG:HB3 | 1:A:35:HIS:HB3  | 2        | 9.87          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 18       | 9.87          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 19       | 9.87          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1  | 2        | 9.87          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2  | 2        | 9.87          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 4        | 9.87          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 13       | 9.87          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 13       | 9.87          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H    | 14       | 9.87          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 9        | 9.87          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 9        | 9.87          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 2        | 9.87          |
| (1,2429) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HB3  | 16       | 9.87          |
| (1,2429) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HB3  | 16       | 9.87          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 7        | 9.87          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 7        | 9.87          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 15       | 9.87          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 4        | 9.87          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 4        | 9.87          |
| (1,2337) | 1:A:9:PRO:HG2  | 1:A:26:CYS:HA   | 17       | 9.87          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 7        | 9.87          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 10       | 9.87          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 11       | 9.87          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 4        | 9.87          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 11       | 9.87          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 1        | 9.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 1        | 9.87          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 1        | 9.87          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 1        | 9.87          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 1        | 9.87          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 1        | 9.87          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2 | 1        | 9.87          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3 | 1        | 9.87          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 3        | 9.87          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H   | 14       | 9.87          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H   | 10       | 9.87          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 17       | 9.87          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 2        | 9.87          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 5        | 9.87          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 11       | 9.87          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 17       | 9.87          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 17       | 9.87          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 5        | 9.87          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 7        | 9.87          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 10       | 9.87          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 12       | 9.87          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 16       | 9.87          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2  | 11       | 9.87          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3  | 11       | 9.87          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2 | 4        | 9.86          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 14       | 9.86          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 19       | 9.86          |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H   | 8        | 9.86          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 17       | 9.86          |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG  | 19       | 9.86          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 7        | 9.86          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 7        | 9.86          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 8        | 9.86          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 8        | 9.86          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 9        | 9.86          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 12       | 9.86          |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 1        | 9.86          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 14       | 9.86          |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2 | 2        | 9.86          |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD3 | 2        | 9.86          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1 | 14       | 9.86          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2 | 14       | 9.86          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3 | 14       | 9.86          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 18       | 9.86          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 19       | 9.86          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 19       | 9.86          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 14       | 9.86          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 12       | 9.86          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 3        | 9.86          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 9        | 9.86          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 9        | 9.86          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 18       | 9.86          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 18       | 9.86          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 20       | 9.86          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA   | 12       | 9.86          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H    | 6        | 9.86          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H    | 6        | 9.86          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 20       | 9.86          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 20       | 9.86          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 20       | 9.86          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 20       | 9.86          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3  | 6        | 9.86          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3  | 6        | 9.86          |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3  | 3        | 9.86          |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3  | 4        | 9.86          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H    | 6        | 9.86          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 18       | 9.86          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 19       | 9.86          |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 12       | 9.86          |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H    | 9        | 9.86          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2  | 17       | 9.86          |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG   | 18       | 9.86          |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG   | 19       | 9.86          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H    | 10       | 9.86          |
| (1,2553) | 1:A:10:GLY:HA3  | 1:A:26:CYS:H    | 4        | 9.86          |
| (1,2431) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HE   | 19       | 9.86          |
| (1,2431) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HE   | 19       | 9.86          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2  | 9        | 9.86          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3  | 9        | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 10       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 10       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD13 | 10       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD21 | 10       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD22 | 10       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD23 | 10       | 9.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 13       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 13       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 13       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 13       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 13       | 9.86          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 13       | 9.86          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 1        | 9.86          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 5        | 9.86          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 11       | 9.86          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 12       | 9.86          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 12       | 9.86          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 12       | 9.86          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 12       | 9.86          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 1        | 9.86          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 1        | 9.86          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H    | 13       | 9.86          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2  | 7        | 9.86          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3  | 7        | 9.86          |
| (1,1779) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HA   | 2        | 9.86          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 17       | 9.86          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 10       | 9.86          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 17       | 9.86          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB1  | 15       | 9.86          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB2  | 15       | 9.86          |
| (1,1583) | 1:A:6:GLN:HA   | 1:A:34:ALA:HB3  | 15       | 9.86          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 3        | 9.86          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 10       | 9.86          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 10       | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 4        | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 4        | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 6        | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 6        | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 10       | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 10       | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 14       | 9.86          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 14       | 9.86          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 17       | 9.86          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 17       | 9.86          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 14       | 9.86          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 2        | 9.86          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 5        | 9.86          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H    | 11       | 9.86          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,965)  | 1:A:3:PRO:HD2   | 1:A:21:SER:H    | 10       | 9.85          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2  | 7        | 9.85          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3  | 7        | 9.85          |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H    | 6        | 9.85          |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 18       | 9.85          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2  | 5        | 9.85          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3  | 5        | 9.85          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 10       | 9.85          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE1  | 9        | 9.85          |
| (1,571)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HE2  | 9        | 9.85          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE1  | 9        | 9.85          |
| (1,571)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HE2  | 9        | 9.85          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1  | 4        | 9.85          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1  | 6        | 9.85          |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1  | 19       | 9.85          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 6        | 9.85          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 6        | 9.85          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 6        | 9.85          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 6        | 9.85          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 5        | 9.85          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 5        | 9.85          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 7        | 9.85          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 7        | 9.85          |
| (1,4374) | 1:A:23:TYR:HB2  | 1:A:29:GLY:H    | 19       | 9.85          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 16       | 9.85          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA   | 9        | 9.85          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 19       | 9.85          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 19       | 9.85          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 18       | 9.85          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 20       | 9.85          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 17       | 9.85          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2  | 20       | 9.85          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2  | 20       | 9.85          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2  | 20       | 9.85          |
| (1,3732) | 1:A:18:LEU:HG   | 1:A:22:GLN:H    | 17       | 9.85          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 1        | 9.85          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 1        | 9.85          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 14       | 9.85          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 14       | 9.85          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 4        | 9.85          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 4        | 9.85          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 17       | 9.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3  | 17       | 9.85          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE1  | 13       | 9.85          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2  | 13       | 9.85          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 15       | 9.85          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 15       | 9.85          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 15       | 9.85          |
| (1,3435) | 1:A:15:ARG:HE  | 1:A:29:GLY:H    | 16       | 9.85          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 20       | 9.85          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 12       | 9.85          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 20       | 9.85          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 2        | 9.85          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 11       | 9.85          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 11       | 9.85          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 7        | 9.85          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 3        | 9.85          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 3        | 9.85          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 6        | 9.85          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB2  | 15       | 9.85          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB3  | 15       | 9.85          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1  | 5        | 9.85          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2  | 5        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 1        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 4        | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 11       | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 11       | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 11       | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 11       | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 11       | 9.85          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 11       | 9.85          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 7        | 9.85          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 7        | 9.85          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 16       | 9.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 18       | 9.85          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 19       | 9.85          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 15       | 9.85          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 11       | 9.85          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 3        | 9.85          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 3        | 9.85          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 5        | 9.85          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 5        | 9.85          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2 | 14       | 9.85          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3 | 14       | 9.85          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2 | 1        | 9.85          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3 | 1        | 9.85          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 4        | 9.85          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H   | 6        | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 4        | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 4        | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 11       | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 11       | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 12       | 9.85          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 12       | 9.85          |
| (1,965)  | 1:A:3:PRO:HD2  | 1:A:21:SER:H   | 5        | 9.84          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 1        | 9.84          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H   | 5        | 9.84          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 7        | 9.84          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 15       | 9.84          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 18       | 9.84          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1 | 3        | 9.84          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2 | 3        | 9.84          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1 | 13       | 9.84          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2 | 13       | 9.84          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 13       | 9.84          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 11       | 9.84          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 11       | 9.84          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 4        | 9.84          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 4        | 9.84          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 4        | 9.84          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 4        | 9.84          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 3        | 9.84          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 5        | 9.84          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 9        | 9.84          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2 | 5        | 9.84          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3 | 5        | 9.84          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 13       | 9.84          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 13       | 9.84          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 18       | 9.84          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 18       | 9.84          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 13       | 9.84          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 16       | 9.84          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 5        | 9.84          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 8        | 9.84          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 8        | 9.84          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 4        | 9.84          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 4        | 9.84          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE1  | 14       | 9.84          |
| (1,3683) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HE2  | 14       | 9.84          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 11       | 9.84          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 11       | 9.84          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA   | 15       | 9.84          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA   | 15       | 9.84          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 20       | 9.84          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2  | 12       | 9.84          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3  | 12       | 9.84          |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3  | 2        | 9.84          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 9        | 9.84          |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 2        | 9.84          |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 2        | 9.84          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE21 | 19       | 9.84          |
| (1,3155) | 1:A:13:GLY:HA3  | 1:A:22:GLN:HE22 | 19       | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 1        | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 1        | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 2        | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 2        | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 10       | 9.84          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 10       | 9.84          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 6        | 9.84          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 6        | 9.84          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H    | 5        | 9.84          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD1  | 12       | 9.84          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD2  | 12       | 9.84          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2  | 20       | 9.84          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3  | 20       | 9.84          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD11 | 3        | 9.84          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD12 | 3        | 9.84          |
| (1,2380) | 1:A:9:PRO:HG3   | 1:A:18:LEU:HD13 | 3        | 9.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 3        | 9.84          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 3        | 9.84          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 3        | 9.84          |
| (1,2260) | 1:A:9:PRO:HB3  | 1:A:20:CYS:H    | 17       | 9.84          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 7        | 9.84          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 7        | 9.84          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 11       | 9.84          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 11       | 9.84          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE1  | 14       | 9.84          |
| (1,1434) | 1:A:5:GLY:H    | 1:A:23:TYR:HE2  | 14       | 9.84          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 10       | 9.84          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 7        | 9.84          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 7        | 9.84          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 19       | 9.84          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 19       | 9.84          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 12       | 9.83          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 3        | 9.83          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA   | 11       | 9.83          |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 7        | 9.83          |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 18       | 9.83          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 10       | 9.83          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 14       | 9.83          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 14       | 9.83          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H    | 6        | 9.83          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 12       | 9.83          |
| (1,590)  | 1:A:1:SER:HB2  | 1:A:33:CYS:H    | 9        | 9.83          |
| (1,590)  | 1:A:1:SER:HB3  | 1:A:33:CYS:H    | 9        | 9.83          |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1  | 5        | 9.83          |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2  | 5        | 9.83          |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1  | 5        | 9.83          |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2  | 5        | 9.83          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 9        | 9.83          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 9        | 9.83          |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H    | 18       | 9.83          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H    | 6        | 9.83          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA   | 10       | 9.83          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA   | 11       | 9.83          |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H    | 19       | 9.83          |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H    | 19       | 9.83          |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H    | 20       | 9.83          |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H    | 20       | 9.83          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA   | 10       | 9.83          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 11       | 9.83          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 11       | 9.83          |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 12       | 9.83          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2  | 5        | 9.83          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H    | 1        | 9.83          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H    | 16       | 9.83          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 15       | 9.83          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 10       | 9.83          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 2        | 9.83          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 3        | 9.83          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 3        | 9.83          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 1        | 9.83          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 1        | 9.83          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 2        | 9.83          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 2        | 9.83          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 2        | 9.83          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 2        | 9.83          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 2        | 9.83          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 2        | 9.83          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 15       | 9.83          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 15       | 9.83          |
| (1,3356) | 1:A:15:ARG:HB3  | 1:A:35:HIS:HB3  | 12       | 9.83          |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 9        | 9.83          |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H    | 8        | 9.83          |
| (1,3056) | 1:A:12:GLY:HA3  | 1:A:21:SER:HG   | 16       | 9.83          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 4        | 9.83          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 4        | 9.83          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 5        | 9.83          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 5        | 9.83          |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 13       | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD11 | 3        | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD12 | 3        | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD13 | 3        | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD21 | 3        | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD22 | 3        | 9.83          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD23 | 3        | 9.83          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE1  | 18       | 9.83          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE2  | 18       | 9.83          |
| (1,2457) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HE1  | 19       | 9.83          |
| (1,2457) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HE1  | 19       | 9.83          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2  | 18       | 9.83          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3  | 18       | 9.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 19       | 9.83          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 19       | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 2        | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 2        | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 2        | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 2        | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 2        | 9.83          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 2        | 9.83          |
| (1,2216) | 1:A:9:PRO:HB2  | 1:A:23:TYR:H    | 17       | 9.83          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 1        | 9.83          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 11       | 9.83          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 14       | 9.83          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 14       | 9.83          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 4        | 9.83          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 4        | 9.83          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 14       | 9.83          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 14       | 9.83          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 4        | 9.83          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE   | 12       | 9.83          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2   | 1        | 9.83          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3   | 1        | 9.83          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 13       | 9.83          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 13       | 9.83          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 9        | 9.83          |
| (1,1331) | 1:A:4:ASN:HD22 | 1:A:12:GLY:H    | 15       | 9.83          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 13       | 9.83          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA   | 6        | 9.83          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 3        | 9.83          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 4        | 9.83          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2  | 9        | 9.83          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3  | 9        | 9.83          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 10       | 9.83          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 10       | 9.83          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 16       | 9.83          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 16       | 9.83          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 8        | 9.82          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 11       | 9.82          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 3        | 9.82          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1  | 4        | 9.82          |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2  | 4        | 9.82          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H    | 2        | 9.82          |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H    | 18       | 9.82          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H    | 1        | 9.82          |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 16       | 9.82          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2  | 3        | 9.82          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3  | 3        | 9.82          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2  | 1        | 9.82          |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1  | 11       | 9.82          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 1        | 9.82          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 14       | 9.82          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 18       | 9.82          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 18       | 9.82          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 12       | 9.82          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 12       | 9.82          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 12       | 9.82          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 12       | 9.82          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2  | 18       | 9.82          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2  | 18       | 9.82          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 18       | 9.82          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 3        | 9.82          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 15       | 9.82          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 5        | 9.82          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 5        | 9.82          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 15       | 9.82          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 15       | 9.82          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 15       | 9.82          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 15       | 9.82          |
| (1,3383) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HA   | 20       | 9.82          |
| (1,3383) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HA   | 20       | 9.82          |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 8        | 9.82          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3  | 13       | 9.82          |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 12       | 9.82          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1  | 3        | 9.82          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2  | 3        | 9.82          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 3        | 9.82          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 3        | 9.82          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 11       | 9.82          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 11       | 9.82          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE21 | 7        | 9.82          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE22 | 7        | 9.82          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE21 | 19       | 9.82          |
| (1,2861) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HE22 | 19       | 9.82          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD1  | 1        | 9.82          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD2  | 1        | 9.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2651) | 1:A:11:TRP:HB2 | 1:A:22:GLN:H    | 17       | 9.82          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 12       | 9.82          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 15       | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 4        | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 4        | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 4        | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 4        | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 4        | 9.82          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 4        | 9.82          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 2        | 9.82          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 5        | 9.82          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 10       | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 5        | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 5        | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 5        | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 5        | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 5        | 9.82          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 5        | 9.82          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1  | 1        | 9.82          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2  | 1        | 9.82          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 10       | 9.82          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 13       | 9.82          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 3        | 9.82          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 3        | 9.82          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 2        | 9.82          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 2        | 9.82          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 14       | 9.82          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2   | 1        | 9.82          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3   | 1        | 9.82          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 15       | 9.82          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H    | 19       | 9.82          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2  | 13       | 9.82          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3  | 13       | 9.82          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 8        | 9.82          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 8        | 9.82          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2   | 18       | 9.82          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3   | 18       | 9.82          |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 19       | 9.81          |
| (1,812)  | 1:A:3:PRO:HB2  | 1:A:27:GLY:HA2  | 20       | 9.81          |
| (1,808)  | 1:A:3:PRO:HB2  | 1:A:25:TYR:H    | 2        | 9.81          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H    | 8        | 9.81          |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H    | 16       | 9.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 5        | 9.81          |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 20       | 9.81          |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H   | 15       | 9.81          |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG  | 20       | 9.81          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2 | 18       | 9.81          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 12       | 9.81          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 13       | 9.81          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 3        | 9.81          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 3        | 9.81          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 3        | 9.81          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA  | 11       | 9.81          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 10       | 9.81          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 10       | 9.81          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 10       | 9.81          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 20       | 9.81          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 20       | 9.81          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 10       | 9.81          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 7        | 9.81          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 7        | 9.81          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 1        | 9.81          |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 18       | 9.81          |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 19       | 9.81          |
| (1,4146) | 1:A:22:GLN:HA   | 1:A:29:GLY:H   | 20       | 9.81          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 7        | 9.81          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 19       | 9.81          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 19       | 9.81          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2 | 9        | 9.81          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3 | 9        | 9.81          |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 18       | 9.81          |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 19       | 9.81          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 4        | 9.81          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H   | 18       | 9.81          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H   | 18       | 9.81          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2 | 18       | 9.81          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2 | 18       | 9.81          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3 | 18       | 9.81          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3 | 18       | 9.81          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 17       | 9.81          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 17       | 9.81          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 14       | 9.81          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 14       | 9.81          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 7        | 9.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3  | 7        | 9.81          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3  | 1        | 9.81          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE1  | 1        | 9.81          |
| (1,3238) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HE2  | 1        | 9.81          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 20       | 9.81          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 20       | 9.81          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 20       | 9.81          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 20       | 9.81          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB2  | 6        | 9.81          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB3  | 6        | 9.81          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE21 | 11       | 9.81          |
| (1,2861) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HE22 | 11       | 9.81          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 14       | 9.81          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 14       | 9.81          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 9        | 9.81          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 9        | 9.81          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 19       | 9.81          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 19       | 9.81          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 14       | 9.81          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 14       | 9.81          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 16       | 9.81          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 16       | 9.81          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 13       | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 6        | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 6        | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 6        | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 6        | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 6        | 9.81          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 6        | 9.81          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 20       | 9.81          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 17       | 9.81          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 2        | 9.81          |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 5        | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 16       | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 16       | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 18       | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 18       | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 19       | 9.81          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 19       | 9.81          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 10       | 9.81          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 10       | 9.81          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 20       | 9.81          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2088) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HE22 | 20       | 9.81          |
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA   | 15       | 9.81          |
| (1,2048) | 1:A:8:GLY:H     | 1:A:22:GLN:HG2  | 20       | 9.81          |
| (1,1649) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HG2  | 7        | 9.81          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2   | 20       | 9.81          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3   | 20       | 9.81          |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H    | 18       | 9.81          |
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H    | 5        | 9.81          |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H    | 2        | 9.81          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2  | 5        | 9.81          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3  | 5        | 9.81          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2  | 10       | 9.81          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3  | 10       | 9.81          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB2   | 12       | 9.81          |
| (1,1001) | 1:A:3:PRO:HD3   | 1:A:9:PRO:HB3   | 12       | 9.81          |
| (1,812)  | 1:A:3:PRO:HB2   | 1:A:27:GLY:HA2  | 16       | 9.8           |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 4        | 9.8           |
| (1,808)  | 1:A:3:PRO:HB2   | 1:A:25:TYR:H    | 6        | 9.8           |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 13       | 9.8           |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD1  | 5        | 9.8           |
| (1,741)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HD2  | 5        | 9.8           |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H    | 16       | 9.8           |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H    | 2        | 9.8           |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H    | 12       | 9.8           |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H    | 11       | 9.8           |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1  | 3        | 9.8           |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1  | 3        | 9.8           |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1  | 17       | 9.8           |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 8        | 9.8           |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 17       | 9.8           |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 3        | 9.8           |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 3        | 9.8           |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 3        | 9.8           |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 3        | 9.8           |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 18       | 9.8           |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 19       | 9.8           |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 6        | 9.8           |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 6        | 9.8           |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2  | 16       | 9.8           |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2  | 19       | 9.8           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 4        | 9.8           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 4        | 9.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG2  | 10       | 9.8           |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG3  | 10       | 9.8           |
| (1,4146) | 1:A:22:GLN:HA  | 1:A:29:GLY:H    | 16       | 9.8           |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3  | 19       | 9.8           |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2  | 13       | 9.8           |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3  | 13       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 18       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 18       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 18       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 19       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 19       | 9.8           |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 19       | 9.8           |
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3  | 6        | 9.8           |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 6        | 9.8           |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2  | 8        | 9.8           |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3  | 8        | 9.8           |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 16       | 9.8           |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 9        | 9.8           |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 15       | 9.8           |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3  | 11       | 9.8           |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 3        | 9.8           |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 10       | 9.8           |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 3        | 9.8           |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 14       | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 7        | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 7        | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 8        | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 8        | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 11       | 9.8           |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 11       | 9.8           |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 17       | 9.8           |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 15       | 9.8           |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 15       | 9.8           |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 9        | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 10       | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 10       | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 10       | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 10       | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 10       | 9.8           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 10       | 9.8           |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 20       | 9.8           |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 20       | 9.8           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 13       | 9.8           |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 9        | 9.8           |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 14       | 9.8           |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 19       | 9.8           |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 19       | 9.8           |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 14       | 9.8           |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 17       | 9.8           |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 6        | 9.8           |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 17       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 11       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 11       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 15       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 15       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 19       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 19       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 20       | 9.8           |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 20       | 9.8           |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 15       | 9.8           |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 15       | 9.8           |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 19       | 9.8           |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 19       | 9.8           |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 11       | 9.8           |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 3        | 9.8           |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 9        | 9.8           |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 12       | 9.8           |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 8        | 9.79          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 8        | 9.79          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 8        | 9.79          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 8        | 9.79          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 10       | 9.79          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG  | 1        | 9.79          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H   | 2        | 9.79          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H   | 11       | 9.79          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H   | 18       | 9.79          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2 | 2        | 9.79          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3 | 2        | 9.79          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 3        | 9.79          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 5        | 9.79          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 17       | 9.79          |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H   | 17       | 9.79          |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H   | 17       | 9.79          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 1        | 9.79          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 20       | 9.79          |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 17       | 9.79          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 11       | 9.79          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 4        | 9.79          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 4        | 9.79          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H    | 20       | 9.79          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2  | 7        | 9.79          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 15       | 9.79          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 3        | 9.79          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 3        | 9.79          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 9        | 9.79          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 9        | 9.79          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 12       | 9.79          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 17       | 9.79          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 6        | 9.79          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 6        | 9.79          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1  | 12       | 9.79          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2  | 12       | 9.79          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3  | 12       | 9.79          |
| (1,3435) | 1:A:15:ARG:HE   | 1:A:29:GLY:H    | 1        | 9.79          |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 9        | 9.79          |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 9        | 9.79          |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 13       | 9.79          |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 13       | 9.79          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H    | 9        | 9.79          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H    | 9        | 9.79          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2  | 9        | 9.79          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3  | 9        | 9.79          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 1        | 9.79          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 1        | 9.79          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H    | 5        | 9.79          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 1        | 9.79          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 11       | 9.79          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 12       | 9.79          |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1  | 9        | 9.79          |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE21 | 14       | 9.79          |
| (1,3201) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HE22 | 14       | 9.79          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 14       | 9.79          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 14       | 9.79          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 8        | 9.79          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 8        | 9.79          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 8        | 9.79          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 1        | 9.79          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 1        | 9.79          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 7        | 9.79          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 16       | 9.79          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 18       | 9.79          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 19       | 9.79          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 20       | 9.79          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2 | 8        | 9.79          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3 | 8        | 9.79          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H   | 11       | 9.79          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 7        | 9.79          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 8        | 9.79          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 9        | 9.79          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 20       | 9.79          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 20       | 9.79          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1 | 6        | 9.79          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2 | 6        | 9.79          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 15       | 9.79          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 15       | 9.79          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 15       | 9.79          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 19       | 9.79          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 2        | 9.79          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 2        | 9.79          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2 | 2        | 9.79          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3 | 2        | 9.79          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 4        | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 7        | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 7        | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 8        | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 8        | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 12       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 12       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 13       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 13       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 16       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 16       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG2  | 18       | 9.79          |
| (1,1401) | 1:A:5:GLY:H    | 1:A:9:PRO:HG3  | 18       | 9.79          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 7        | 9.79          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 7        | 9.79          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 8        | 9.79          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 8        | 9.79          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2   | 11       | 9.79          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3   | 11       | 9.79          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2   | 12       | 9.79          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3   | 12       | 9.79          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2   | 18       | 9.79          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3   | 18       | 9.79          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2  | 12       | 9.79          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3  | 12       | 9.79          |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG   | 12       | 9.79          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2  | 1        | 9.79          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3  | 1        | 9.79          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H    | 1        | 9.79          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 15       | 9.78          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 11       | 9.78          |
| (1,775)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:H    | 12       | 9.78          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1  | 6        | 9.78          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2  | 6        | 9.78          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H    | 12       | 9.78          |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG   | 17       | 9.78          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1  | 8        | 9.78          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2  | 8        | 9.78          |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1  | 1        | 9.78          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 15       | 9.78          |
| (1,4591) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HA   | 10       | 9.78          |
| (1,4591) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HA   | 10       | 9.78          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 16       | 9.78          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 1        | 9.78          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 1        | 9.78          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 13       | 9.78          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 13       | 9.78          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 4        | 9.78          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 4        | 9.78          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H    | 3        | 9.78          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H    | 5        | 9.78          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 3        | 9.78          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 10       | 9.78          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2  | 3        | 9.78          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3  | 3        | 9.78          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 14       | 9.78          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1  | 12       | 9.78          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 11       | 9.78          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 11       | 9.78          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 11       | 9.78          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 11       | 9.78          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 11       | 9.78          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 11       | 9.78          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 17       | 9.78          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 17       | 9.78          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2  | 14       | 9.78          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3  | 14       | 9.78          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 7        | 9.78          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2  | 2        | 9.78          |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3  | 8        | 9.78          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1  | 17       | 9.78          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2  | 17       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 9        | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 9        | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 9        | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 20       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 20       | 9.78          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 20       | 9.78          |
| (1,2976) | 1:A:11:TRP:HH2  | 1:A:25:TYR:HB3  | 4        | 9.78          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 14       | 9.78          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 14       | 9.78          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD1  | 15       | 9.78          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD2  | 15       | 9.78          |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG   | 15       | 9.78          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE1  | 9        | 9.78          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE2  | 9        | 9.78          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1  | 16       | 9.78          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2  | 16       | 9.78          |
| (1,2430) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HG2  | 1        | 9.78          |
| (1,2430) | 1:A:9:PRO:HD2   | 1:A:15:ARG:HG3  | 1        | 9.78          |
| (1,2430) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HG2  | 1        | 9.78          |
| (1,2430) | 1:A:9:PRO:HD3   | 1:A:15:ARG:HG3  | 1        | 9.78          |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 1        | 9.78          |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 6        | 9.78          |
| (1,2390) | 1:A:9:PRO:HG3   | 1:A:23:TYR:H    | 13       | 9.78          |
| (1,2173) | 1:A:9:PRO:HA    | 1:A:26:CYS:HA   | 3        | 9.78          |
| (1,2173) | 1:A:9:PRO:HA    | 1:A:26:CYS:HA   | 4        | 9.78          |
| (1,2173) | 1:A:9:PRO:HA    | 1:A:26:CYS:HA   | 6        | 9.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2164) | 1:A:9:PRO:HA   | 1:A:23:TYR:H   | 17       | 9.78          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 9        | 9.78          |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2 | 1        | 9.78          |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2 | 1        | 9.78          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 7        | 9.78          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 7        | 9.78          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 15       | 9.78          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 15       | 9.78          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 6        | 9.78          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 4        | 9.78          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2 | 16       | 9.78          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3 | 16       | 9.78          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 13       | 9.78          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 13       | 9.78          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB2  | 16       | 9.78          |
| (1,1400) | 1:A:5:GLY:H    | 1:A:9:PRO:HB3  | 16       | 9.78          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2 | 4        | 9.78          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3 | 4        | 9.78          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 12       | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 8        | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 8        | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 13       | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 13       | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 19       | 9.78          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 19       | 9.78          |
| (1,1213) | 1:A:4:ASN:HB3  | 1:A:22:GLN:HA  | 2        | 9.78          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 9        | 9.78          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 11       | 9.78          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 15       | 9.78          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 15       | 9.78          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 13       | 9.78          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 15       | 9.78          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2 | 6        | 9.77          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 12       | 9.77          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 9        | 9.77          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 18       | 9.77          |
| (1,727)  | 1:A:2:GLY:HA3  | 1:A:19:CYS:H   | 19       | 9.77          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 5        | 9.77          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 8        | 9.77          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 11       | 9.77          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 20       | 9.77          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H   | 19       | 9.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 6        | 9.77          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 15       | 9.77          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 15       | 9.77          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 15       | 9.77          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 15       | 9.77          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 15       | 9.77          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 15       | 9.77          |
| (1,517)  | 1:A:1:SER:HA   | 1:A:17:GLY:H   | 14       | 9.77          |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1 | 1        | 9.77          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 3        | 9.77          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 3        | 9.77          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 6        | 9.77          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 6        | 9.77          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 16       | 9.77          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 18       | 9.77          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 19       | 9.77          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 20       | 9.77          |
| (1,4598) | 1:A:25:TYR:HE1 | 1:A:33:CYS:H   | 16       | 9.77          |
| (1,4598) | 1:A:25:TYR:HE2 | 1:A:33:CYS:H   | 16       | 9.77          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 4        | 9.77          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 13       | 9.77          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA  | 15       | 9.77          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 16       | 9.77          |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2 | 17       | 9.77          |
| (1,4438) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HB2 | 17       | 9.77          |
| (1,4420) | 1:A:23:TYR:HE1 | 1:A:28:SER:HB3 | 1        | 9.77          |
| (1,4420) | 1:A:23:TYR:HE2 | 1:A:28:SER:HB3 | 1        | 9.77          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 5        | 9.77          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 5        | 9.77          |
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3 | 1        | 9.77          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2 | 11       | 9.77          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3 | 11       | 9.77          |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3 | 3        | 9.77          |
| (1,3433) | 1:A:15:ARG:HE  | 1:A:27:GLY:HA3 | 16       | 9.77          |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 9        | 9.77          |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 9        | 9.77          |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA  | 19       | 9.77          |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA  | 19       | 9.77          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2 | 16       | 9.77          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2 | 16       | 9.77          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3 | 16       | 9.77          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3 | 16       | 9.77          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 6        | 9.77          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 18       | 9.77          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 19       | 9.77          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 17       | 9.77          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 15       | 9.77          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H    | 14       | 9.77          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 5        | 9.77          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1  | 19       | 9.77          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2  | 19       | 9.77          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3  | 19       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 16       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 16       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 18       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 18       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 19       | 9.77          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 19       | 9.77          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 16       | 9.77          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 16       | 9.77          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 16       | 9.77          |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 10       | 9.77          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 17       | 9.77          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 17       | 9.77          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 5        | 9.77          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 5        | 9.77          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 8        | 9.77          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 10       | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 6        | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 6        | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 6        | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 6        | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 6        | 9.77          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 6        | 9.77          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 12       | 9.77          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 12       | 9.77          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 3        | 9.77          |
| (1,2401) | 1:A:9:PRO:HG3  | 1:A:26:CYS:H    | 4        | 9.77          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 16       | 9.77          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 12       | 9.77          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 14       | 9.77          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 20       | 9.77          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 3        | 9.77          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 5        | 9.77          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1898) | 1:A:6:GLN:HE22  | 1:A:27:GLY:H    | 14       | 9.77          |
| (1,1422) | 1:A:5:GLY:H     | 1:A:19:CYS:HB2  | 3        | 9.77          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2  | 9        | 9.77          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3  | 9        | 9.77          |
| (1,1147) | 1:A:4:ASN:HB2   | 1:A:22:GLN:H    | 14       | 9.77          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H    | 8        | 9.77          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2  | 20       | 9.76          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3  | 20       | 9.76          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H    | 20       | 9.76          |
| (1,688)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HG   | 7        | 9.76          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB2  | 9        | 9.76          |
| (1,664)  | 1:A:2:GLY:H     | 1:A:32:TYR:HB3  | 9        | 9.76          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1  | 13       | 9.76          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2  | 13       | 9.76          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 16       | 9.76          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3  | 13       | 9.76          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1  | 10       | 9.76          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2  | 10       | 9.76          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3  | 10       | 9.76          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 10       | 9.76          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 10       | 9.76          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 19       | 9.76          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA   | 17       | 9.76          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H    | 6        | 9.76          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 11       | 9.76          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 11       | 9.76          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1  | 13       | 9.76          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2  | 16       | 9.76          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 6        | 9.76          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 6        | 9.76          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1  | 13       | 9.76          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 11       | 9.76          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 11       | 9.76          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 11       | 9.76          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 5        | 9.76          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 10       | 9.76          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 10       | 9.76          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1  | 6        | 9.76          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2  | 6        | 9.76          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 6        | 9.76          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 6        | 9.76          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 5        | 9.76          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3409) | 1:A:15:ARG:HD2 | 1:A:29:GLY:HA3  | 15       | 9.76          |
| (1,3409) | 1:A:15:ARG:HD3 | 1:A:29:GLY:HA3  | 15       | 9.76          |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H    | 12       | 9.76          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H    | 12       | 9.76          |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 7        | 9.76          |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 7        | 9.76          |
| (1,3383) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HA   | 18       | 9.76          |
| (1,3383) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HA   | 18       | 9.76          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 10       | 9.76          |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1  | 11       | 9.76          |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2  | 11       | 9.76          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 16       | 9.76          |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 8        | 9.76          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 16       | 9.76          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 16       | 9.76          |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 11       | 9.76          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 1        | 9.76          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 6        | 9.76          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 6        | 9.76          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 2        | 9.76          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 5        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 2        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 2        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 2        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 2        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 2        | 9.76          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 2        | 9.76          |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 5        | 9.76          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 15       | 9.76          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 18       | 9.76          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 19       | 9.76          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 7        | 9.76          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 15       | 9.76          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 12       | 9.76          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA   | 20       | 9.76          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 2        | 9.76          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 10       | 9.76          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 6        | 9.76          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA   | 13       | 9.76          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA   | 13       | 9.76          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2  | 19       | 9.76          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3  | 19       | 9.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1898) | 1:A:6:GLN:HE22  | 1:A:27:GLY:H   | 13       | 9.76          |
| (1,1890) | 1:A:6:GLN:HE22  | 1:A:21:SER:HB3 | 13       | 9.76          |
| (1,1890) | 1:A:6:GLN:HE22  | 1:A:21:SER:HB3 | 15       | 9.76          |
| (1,1875) | 1:A:6:GLN:HE22  | 1:A:14:CYS:H   | 17       | 9.76          |
| (1,1641) | 1:A:6:GLN:HB3   | 1:A:19:CYS:HB3 | 13       | 9.76          |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2 | 19       | 9.76          |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H   | 14       | 9.76          |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H   | 17       | 9.76          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2 | 1        | 9.76          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3 | 1        | 9.76          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2 | 15       | 9.76          |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3 | 15       | 9.76          |
| (1,1415) | 1:A:5:GLY:H     | 1:A:15:ARG:HE  | 18       | 9.76          |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG2  | 9        | 9.76          |
| (1,1401) | 1:A:5:GLY:H     | 1:A:9:PRO:HG3  | 9        | 9.76          |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2 | 14       | 9.76          |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3 | 14       | 9.76          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2 | 3        | 9.76          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3 | 3        | 9.76          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD2  | 12       | 9.76          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD3  | 12       | 9.76          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD2  | 18       | 9.76          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD3  | 18       | 9.76          |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 14       | 9.76          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 4        | 9.76          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 17       | 9.76          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 14       | 9.75          |
| (1,727)  | 1:A:2:GLY:HA3   | 1:A:19:CYS:H   | 7        | 9.75          |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H   | 10       | 9.75          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 12       | 9.75          |
| (1,4707) | 1:A:27:GLY:HA2  | 1:A:35:HIS:HE1 | 20       | 9.75          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA  | 13       | 9.75          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 7        | 9.75          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 20       | 9.75          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 2        | 9.75          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 6        | 9.75          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 7        | 9.75          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 7        | 9.75          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 13       | 9.75          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 13       | 9.75          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 15       | 9.75          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 17       | 9.75          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 3        | 9.75          |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 3        | 9.75          |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 3        | 9.75          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H    | 5        | 9.75          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 3        | 9.75          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 3        | 9.75          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 10       | 9.75          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 10       | 9.75          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 15       | 9.75          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 15       | 9.75          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2  | 7        | 9.75          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3  | 7        | 9.75          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2  | 16       | 9.75          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3  | 16       | 9.75          |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 14       | 9.75          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H    | 17       | 9.75          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H    | 17       | 9.75          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2  | 3        | 9.75          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2  | 3        | 9.75          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3  | 3        | 9.75          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3  | 3        | 9.75          |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE21 | 11       | 9.75          |
| (1,3234) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HE22 | 11       | 9.75          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 13       | 9.75          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 13       | 9.75          |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA   | 5        | 9.75          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 15       | 9.75          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 15       | 9.75          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2  | 2        | 9.75          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3  | 2        | 9.75          |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB2  | 12       | 9.75          |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB3  | 12       | 9.75          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE1  | 7        | 9.75          |
| (1,2506) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HE2  | 7        | 9.75          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1  | 5        | 9.75          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2  | 5        | 9.75          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1  | 14       | 9.75          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2  | 14       | 9.75          |
| (1,2319) | 1:A:9:PRO:HG2   | 1:A:20:CYS:H    | 9        | 9.75          |
| (1,2319) | 1:A:9:PRO:HG2   | 1:A:20:CYS:H    | 16       | 9.75          |
| (1,2319) | 1:A:9:PRO:HG2   | 1:A:20:CYS:H    | 20       | 9.75          |
| (1,2261) | 1:A:9:PRO:HB3   | 1:A:21:SER:H    | 17       | 9.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA  | 8        | 9.75          |
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA  | 16       | 9.75          |
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA  | 18       | 9.75          |
| (1,2072) | 1:A:8:GLY:H     | 1:A:32:TYR:HA  | 19       | 9.75          |
| (1,1836) | 1:A:6:GLN:HE21  | 1:A:27:GLY:H   | 2        | 9.75          |
| (1,1710) | 1:A:6:GLN:HG2   | 1:A:19:CYS:H   | 13       | 9.75          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB2  | 9        | 9.75          |
| (1,1400) | 1:A:5:GLY:H     | 1:A:9:PRO:HB3  | 9        | 9.75          |
| (1,1256) | 1:A:4:ASN:HD21  | 1:A:10:GLY:H   | 20       | 9.75          |
| (1,1147) | 1:A:4:ASN:HB2   | 1:A:22:GLN:H   | 1        | 9.75          |
| (1,1147) | 1:A:4:ASN:HB2   | 1:A:22:GLN:H   | 15       | 9.75          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2 | 2        | 9.75          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3 | 2        | 9.75          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 3        | 9.75          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE1 | 14       | 9.74          |
| (1,742)  | 1:A:2:GLY:HA3   | 1:A:32:TYR:HE2 | 14       | 9.74          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 7        | 9.74          |
| (1,729)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:H   | 16       | 9.74          |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG  | 11       | 9.74          |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H   | 18       | 9.74          |
| (1,696)  | 1:A:2:GLY:HA2   | 1:A:27:GLY:H   | 19       | 9.74          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 1        | 9.74          |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE1 | 11       | 9.74          |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2 | 11       | 9.74          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 20       | 9.74          |
| (1,621)  | 1:A:2:GLY:H     | 1:A:15:ARG:HE  | 10       | 9.74          |
| (1,4667) | 1:A:26:CYS:HB2  | 1:A:35:HIS:HE1 | 1        | 9.74          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H   | 5        | 9.74          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H   | 5        | 9.74          |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 5        | 9.74          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 8        | 9.74          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 8        | 9.74          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 15       | 9.74          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 15       | 9.74          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 9        | 9.74          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 9        | 9.74          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 11       | 9.74          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 17       | 9.74          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 1        | 9.74          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 10       | 9.74          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 10       | 9.74          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 12       | 9.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H    | 6        | 9.74          |
| (1,3703) | 1:A:18:LEU:HB2 | 1:A:35:HIS:HB3  | 13       | 9.74          |
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2  | 19       | 9.74          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 18       | 9.74          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 18       | 9.74          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 19       | 9.74          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 19       | 9.74          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 14       | 9.74          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 14       | 9.74          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2  | 4        | 9.74          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3  | 4        | 9.74          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 18       | 9.74          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 19       | 9.74          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 14       | 9.74          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3  | 7        | 9.74          |
| (1,3138) | 1:A:13:GLY:HA2 | 1:A:22:GLN:HG3  | 17       | 9.74          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB2  | 8        | 9.74          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB3  | 8        | 9.74          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB2  | 12       | 9.74          |
| (1,2914) | 1:A:11:TRP:HZ3 | 1:A:20:CYS:HB3  | 12       | 9.74          |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 2        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 3        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 3        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 4        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 4        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 5        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 5        | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 10       | 9.74          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 10       | 9.74          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 18       | 9.74          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 18       | 9.74          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 19       | 9.74          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 19       | 9.74          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 4        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 5        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 5        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 5        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 5        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 5        | 9.74          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 5        | 9.74          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 8        | 9.74          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 8        | 9.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 18       | 9.74          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 19       | 9.74          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 18       | 9.74          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 18       | 9.74          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 5        | 9.74          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 5        | 9.74          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 16       | 9.74          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 16       | 9.74          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 6        | 9.74          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 11       | 9.74          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 14       | 9.74          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 12       | 9.74          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 15       | 9.74          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 7        | 9.74          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 7        | 9.74          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2   | 11       | 9.74          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3   | 11       | 9.74          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H    | 10       | 9.74          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 13       | 9.73          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H    | 19       | 9.73          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 1        | 9.73          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2  | 5        | 9.73          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3  | 5        | 9.73          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H    | 7        | 9.73          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1  | 10       | 9.73          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 10       | 9.73          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 10       | 9.73          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 10       | 9.73          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 10       | 9.73          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 10       | 9.73          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H    | 7        | 9.73          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 18       | 9.73          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 18       | 9.73          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 18       | 9.73          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 18       | 9.73          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H    | 12       | 9.73          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H    | 12       | 9.73          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA   | 2        | 9.73          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2  | 9        | 9.73          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3  | 9        | 9.73          |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2  | 9        | 9.73          |
| (1,4363) | 1:A:23:TYR:HA  | 1:A:28:SER:H    | 4        | 9.73          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 12       | 9.73          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 12       | 9.73          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 14       | 9.73          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 14       | 9.73          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 7        | 9.73          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 12       | 9.73          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 12       | 9.73          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 12       | 9.73          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 17       | 9.73          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 19       | 9.73          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 2        | 9.73          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 2        | 9.73          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 15       | 9.73          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 15       | 9.73          |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3  | 11       | 9.73          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 11       | 9.73          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 11       | 9.73          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 17       | 9.73          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2  | 2        | 9.73          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3  | 2        | 9.73          |
| (1,3294) | 1:A:15:ARG:HB2  | 1:A:21:SER:HB3  | 10       | 9.73          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 18       | 9.73          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 18       | 9.73          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 18       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 18       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 18       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 19       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 19       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 20       | 9.73          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 20       | 9.73          |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB2  | 8        | 9.73          |
| (1,2745) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HB3  | 8        | 9.73          |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG   | 12       | 9.73          |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG   | 8        | 9.73          |
| (1,2553) | 1:A:10:GLY:HA3  | 1:A:26:CYS:H    | 12       | 9.73          |
| (1,2540) | 1:A:10:GLY:HA3  | 1:A:20:CYS:HB3  | 6        | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD11 | 12       | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD12 | 12       | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD13 | 12       | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD21 | 12       | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD22 | 12       | 9.73          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD23 | 12       | 9.73          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 9        | 9.73          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 9        | 9.73          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 3        | 9.73          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 3        | 9.73          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 13       | 9.73          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 10       | 9.73          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 20       | 9.73          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 20       | 9.73          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 20       | 9.73          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 20       | 9.73          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 6        | 9.73          |
| (1,1805) | 1:A:6:GLN:HE21 | 1:A:14:CYS:H   | 17       | 9.73          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB2 | 20       | 9.73          |
| (1,1336) | 1:A:4:ASN:HD22 | 1:A:14:CYS:HB3 | 20       | 9.73          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 13       | 9.73          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 13       | 9.73          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 1        | 9.73          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 16       | 9.73          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 16       | 9.73          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 8        | 9.73          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 8        | 9.73          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 8        | 9.73          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 20       | 9.73          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 9        | 9.72          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 8        | 9.72          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 4        | 9.72          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 4        | 9.72          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 9        | 9.72          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 11       | 9.72          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 13       | 9.72          |
| (1,688)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HG  | 9        | 9.72          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 12       | 9.72          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 12       | 9.72          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 1        | 9.72          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 1        | 9.72          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 1        | 9.72          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 1        | 9.72          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1 | 6        | 9.72          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 6        | 9.72          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1 | 6        | 9.72          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 13       | 9.72          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 18       | 9.72          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 5        | 9.72          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2  | 17       | 9.72          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3  | 17       | 9.72          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 7        | 9.72          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 3        | 9.72          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 3        | 9.72          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 10       | 9.72          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 10       | 9.72          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 9        | 9.72          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 7        | 9.72          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2  | 2        | 9.72          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3  | 2        | 9.72          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 15       | 9.72          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2  | 15       | 9.72          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2  | 13       | 9.72          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3  | 13       | 9.72          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 4        | 9.72          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 4        | 9.72          |
| (1,3738) | 1:A:18:LEU:HG   | 1:A:24:GLY:H    | 14       | 9.72          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 15       | 9.72          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 15       | 9.72          |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3  | 14       | 9.72          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2  | 18       | 9.72          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3  | 18       | 9.72          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 12       | 9.72          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 12       | 9.72          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2  | 14       | 9.72          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 14       | 9.72          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 4        | 9.72          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3  | 17       | 9.72          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3  | 17       | 9.72          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3  | 11       | 9.72          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 19       | 9.72          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 19       | 9.72          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 19       | 9.72          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 7        | 9.72          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 7        | 9.72          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2  | 16       | 9.72          |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3  | 16       | 9.72          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD1  | 17       | 9.72          |
| (1,2717) | 1:A:11:TRP:HB3  | 1:A:32:TYR:HD2  | 17       | 9.72          |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG   | 11       | 9.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3 | 3        | 9.72          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1 | 14       | 9.72          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2 | 14       | 9.72          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 8        | 9.72          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 2        | 9.72          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 12       | 9.72          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 12       | 9.72          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 18       | 9.72          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 18       | 9.72          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 19       | 9.72          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 19       | 9.72          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 1        | 9.72          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 5        | 9.72          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 10       | 9.72          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 6        | 9.72          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 1        | 9.72          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 10       | 9.72          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 10       | 9.72          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 10       | 9.72          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 9        | 9.72          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 20       | 9.72          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2  | 10       | 9.72          |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H   | 20       | 9.72          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 8        | 9.72          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 8        | 9.72          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3 | 7        | 9.71          |
| (1,729)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:H   | 14       | 9.71          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 3        | 9.71          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 3        | 9.71          |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 16       | 9.71          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 13       | 9.71          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 17       | 9.71          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 20       | 9.71          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 20       | 9.71          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 1        | 9.71          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3 | 8        | 9.71          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB1 | 12       | 9.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB2  | 12       | 9.71          |
| (1,591)  | 1:A:1:SER:HB2  | 1:A:34:ALA:HB3  | 12       | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB1  | 12       | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB2  | 12       | 9.71          |
| (1,591)  | 1:A:1:SER:HB3  | 1:A:34:ALA:HB3  | 12       | 9.71          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2  | 16       | 9.71          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3  | 16       | 9.71          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H    | 10       | 9.71          |
| (1,4471) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HB2  | 6        | 9.71          |
| (1,4392) | 1:A:23:TYR:HB3 | 1:A:35:HIS:HE1  | 20       | 9.71          |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 18       | 9.71          |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 19       | 9.71          |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 20       | 9.71          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2  | 18       | 9.71          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3  | 18       | 9.71          |
| (1,3758) | 1:A:18:LEU:HG  | 1:A:35:HIS:H    | 8        | 9.71          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB2  | 14       | 9.71          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB3  | 14       | 9.71          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 20       | 9.71          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 20       | 9.71          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 7        | 9.71          |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 13       | 9.71          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 9        | 9.71          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 3        | 9.71          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 13       | 9.71          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 7        | 9.71          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 7        | 9.71          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD1  | 13       | 9.71          |
| (1,2717) | 1:A:11:TRP:HB3 | 1:A:32:TYR:HD2  | 13       | 9.71          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 17       | 9.71          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 14       | 9.71          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 14       | 9.71          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H    | 15       | 9.71          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 10       | 9.71          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 10       | 9.71          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 20       | 9.71          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 19       | 9.71          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 19       | 9.71          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 5        | 9.71          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 15       | 9.71          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 15       | 9.71          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 2        | 9.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2 | 2        | 9.71          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 2        | 9.71          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 10       | 9.71          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 16       | 9.71          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 16       | 9.71          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2 | 14       | 9.71          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3 | 14       | 9.71          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 2        | 9.71          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 15       | 9.71          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 13       | 9.71          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 15       | 9.71          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 13       | 9.71          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 6        | 9.71          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 14       | 9.71          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 14       | 9.71          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 11       | 9.71          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 11       | 9.71          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2  | 5        | 9.71          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 7        | 9.71          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 7        | 9.71          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 16       | 9.71          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB2  | 9        | 9.71          |
| (1,1001) | 1:A:3:PRO:HD3  | 1:A:9:PRO:HB3  | 9        | 9.71          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 17       | 9.7           |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 17       | 9.7           |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 8        | 9.7           |
| (1,775)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:H   | 9        | 9.7           |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD1 | 2        | 9.7           |
| (1,741)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HD2 | 2        | 9.7           |
| (1,696)  | 1:A:2:GLY:HA2  | 1:A:27:GLY:H   | 7        | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 3        | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 3        | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 8        | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 8        | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 12       | 9.7           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 12       | 9.7           |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 13       | 9.7           |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 15       | 9.7           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 3        | 9.7           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 3        | 9.7           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 3        | 9.7           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 3        | 9.7           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 10       | 9.7           |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 1        | 9.7           |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H   | 9        | 9.7           |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 15       | 9.7           |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 15       | 9.7           |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 1        | 9.7           |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 11       | 9.7           |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 5        | 9.7           |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 9        | 9.7           |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 13       | 9.7           |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 1        | 9.7           |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 7        | 9.7           |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 7        | 9.7           |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 14       | 9.7           |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 13       | 9.7           |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 13       | 9.7           |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 17       | 9.7           |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 17       | 9.7           |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 14       | 9.7           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 7        | 9.7           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 7        | 9.7           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 7        | 9.7           |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2 | 12       | 9.7           |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3 | 12       | 9.7           |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2 | 15       | 9.7           |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3 | 15       | 9.7           |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H   | 5        | 9.7           |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H   | 15       | 9.7           |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H   | 1        | 9.7           |
| (1,3262) | 1:A:15:ARG:H    | 1:A:22:GLN:H   | 11       | 9.7           |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H   | 6        | 9.7           |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA  | 20       | 9.7           |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB2 | 9        | 9.7           |
| (1,2914) | 1:A:11:TRP:HZ3  | 1:A:20:CYS:HB3 | 9        | 9.7           |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 13       | 9.7           |
| (1,2858) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HA  | 6        | 9.7           |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2 | 7        | 9.7           |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3 | 7        | 9.7           |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2 | 9        | 9.7           |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3 | 9        | 9.7           |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG2 | 9        | 9.7           |
| (1,2530) | 1:A:10:GLY:HA3  | 1:A:15:ARG:HG3 | 9        | 9.7           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2 | 6        | 9.7           |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3 | 6        | 9.7           |
| (1,2390) | 1:A:9:PRO:HG3   | 1:A:23:TYR:H   | 8        | 9.7           |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB2 | 14       | 9.7           |
| (1,2106) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HB3 | 14       | 9.7           |
| (1,2010) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HB2 | 15       | 9.7           |
| (1,2010) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HB2 | 15       | 9.7           |
| (1,2009) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HA  | 9        | 9.7           |
| (1,2009) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HA  | 9        | 9.7           |
| (1,1890) | 1:A:6:GLN:HE22  | 1:A:21:SER:HB3 | 12       | 9.7           |
| (1,1753) | 1:A:6:GLN:HG3   | 1:A:18:LEU:HA  | 13       | 9.7           |
| (1,1641) | 1:A:6:GLN:HB3   | 1:A:19:CYS:HB3 | 11       | 9.7           |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H   | 5        | 9.7           |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H   | 11       | 9.7           |
| (1,1488) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HB3 | 8        | 9.7           |
| (1,1488) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HB3 | 12       | 9.7           |
| (1,1257) | 1:A:4:ASN:HD21  | 1:A:12:GLY:H   | 6        | 9.7           |
| (1,1207) | 1:A:4:ASN:HB3   | 1:A:19:CYS:HA  | 16       | 9.7           |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H   | 20       | 9.7           |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 14       | 9.7           |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H   | 15       | 9.69          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 8        | 9.69          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 14       | 9.69          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 8        | 9.69          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 19       | 9.69          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 3        | 9.69          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 16       | 9.69          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 6        | 9.69          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 6        | 9.69          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 19       | 9.69          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 19       | 9.69          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 13       | 9.69          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 5        | 9.69          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 5        | 9.69          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 15       | 9.69          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 5        | 9.69          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 5        | 9.69          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 12       | 9.69          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 12       | 9.69          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 15       | 9.69          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 14       | 9.69          |
| (1,3477) | 1:A:16:GLY:H    | 1:A:29:GLY:HA3 | 16       | 9.69          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 15       | 9.69          |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA2 | 12       | 9.69          |
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3 | 12       | 9.69          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 10       | 9.69          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 10       | 9.69          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2 | 3        | 9.69          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3 | 3        | 9.69          |
| (1,3301) | 1:A:15:ARG:HB2 | 1:A:24:GLY:HA2 | 15       | 9.69          |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA  | 18       | 9.69          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1 | 12       | 9.69          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2 | 12       | 9.69          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 15       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2 | 18       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3 | 18       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2 | 19       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3 | 19       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2 | 20       | 9.69          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3 | 20       | 9.69          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 9        | 9.69          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 9        | 9.69          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 3        | 9.69          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 1        | 9.69          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 2        | 9.69          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 2        | 9.69          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 8        | 9.69          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 8        | 9.69          |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1 | 1        | 9.69          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 4        | 9.69          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 6        | 9.69          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1 | 4        | 9.69          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2 | 4        | 9.69          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 2        | 9.69          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 4        | 9.69          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 8        | 9.69          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 8        | 9.69          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 12       | 9.69          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 1        | 9.69          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H   | 1        | 9.69          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 13       | 9.69          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 13       | 9.69          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 5        | 9.69          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 6        | 9.69          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H   | 3        | 9.69          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 1        | 9.68          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 1        | 9.68          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 7        | 9.68          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 7        | 9.68          |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE1 | 10       | 9.68          |
| (1,571)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HE2 | 10       | 9.68          |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE1 | 10       | 9.68          |
| (1,571)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HE2 | 10       | 9.68          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA  | 14       | 9.68          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 2        | 9.68          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 5        | 9.68          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 5        | 9.68          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3 | 5        | 9.68          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 12       | 9.68          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 12       | 9.68          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 3        | 9.68          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 3        | 9.68          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2 | 7        | 9.68          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3 | 7        | 9.68          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG2 | 15       | 9.68          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG3 | 15       | 9.68          |
| (1,4240) | 1:A:22:GLN:HB3 | 1:A:33:CYS:HB3 | 20       | 9.68          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 11       | 9.68          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 11       | 9.68          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ1 | 14       | 9.68          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ2 | 14       | 9.68          |
| (1,3971) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HZ3 | 14       | 9.68          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1 | 15       | 9.68          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2 | 15       | 9.68          |
| (1,3822) | 1:A:19:CYS:H   | 1:A:22:GLN:HG3 | 2        | 9.68          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD1 | 18       | 9.68          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD2 | 18       | 9.68          |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD2 | 20       | 9.68          |
| (1,3636) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HD3 | 20       | 9.68          |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2 | 1        | 9.68          |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3 | 1        | 9.68          |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2 | 20       | 9.68          |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3 | 20       | 9.68          |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H   | 14       | 9.68          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2 | 1        | 9.68          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3 | 1        | 9.68          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 8        | 9.68          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 8        | 9.68          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 9        | 9.68          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 9        | 9.68          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 13       | 9.68          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 13       | 9.68          |
| (1,3390) | 1:A:15:ARG:HG2 | 1:A:34:ALA:HA   | 20       | 9.68          |
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 20       | 9.68          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2  | 5        | 9.68          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2  | 5        | 9.68          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3  | 5        | 9.68          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3  | 5        | 9.68          |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H    | 8        | 9.68          |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H    | 8        | 9.68          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H    | 5        | 9.68          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 20       | 9.68          |
| (1,3262) | 1:A:15:ARG:H   | 1:A:22:GLN:H    | 13       | 9.68          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H    | 5        | 9.68          |
| (1,3251) | 1:A:14:CYS:HB3 | 1:A:31:LYS:HA   | 19       | 9.68          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 2        | 9.68          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 2        | 9.68          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 2        | 9.68          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 10       | 9.68          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 7        | 9.68          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 7        | 9.68          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 7        | 9.68          |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 4        | 9.68          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 16       | 9.68          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 16       | 9.68          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 12       | 9.68          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 11       | 9.68          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 3        | 9.68          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 3        | 9.68          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 4        | 9.68          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 4        | 9.68          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 18       | 9.68          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 18       | 9.68          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 12       | 9.68          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 8        | 9.68          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 8        | 9.68          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 16       | 9.68          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 16       | 9.68          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 11       | 9.68          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 19       | 9.68          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 20       | 9.68          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 20       | 9.68          |
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 4        | 9.68          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 14       | 9.68          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 3        | 9.68          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 10       | 9.68          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 14       | 9.68          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 11       | 9.68          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 11       | 9.68          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 1        | 9.68          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 1        | 9.68          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 5        | 9.68          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2 | 8        | 9.68          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3 | 8        | 9.68          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 18       | 9.68          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 17       | 9.68          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 9        | 9.68          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 17       | 9.68          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 18       | 9.68          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2 | 12       | 9.67          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3 | 12       | 9.67          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2 | 5        | 9.67          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 15       | 9.67          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 15       | 9.67          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 15       | 9.67          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 19       | 9.67          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 19       | 9.67          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 16       | 9.67          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 16       | 9.67          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 17       | 9.67          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 17       | 9.67          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 8        | 9.67          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 3        | 9.67          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 4        | 9.67          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 10       | 9.67          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 6        | 9.67          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 6        | 9.67          |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H   | 9        | 9.67          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 6        | 9.67          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H   | 3        | 9.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4494) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HB3  | 12       | 9.67          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 10       | 9.67          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 10       | 9.67          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H    | 13       | 9.67          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 4        | 9.67          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 5        | 9.67          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 14       | 9.67          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1  | 17       | 9.67          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2  | 17       | 9.67          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 18       | 9.67          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 18       | 9.67          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 9        | 9.67          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 9        | 9.67          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 13       | 9.67          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 13       | 9.67          |
| (1,3251) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HA   | 16       | 9.67          |
| (1,3217) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HG3  | 16       | 9.67          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 3        | 9.67          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 3        | 9.67          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 10       | 9.67          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 10       | 9.67          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3  | 4        | 9.67          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3  | 5        | 9.67          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD11 | 20       | 9.67          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD12 | 20       | 9.67          |
| (1,2969) | 1:A:11:TRP:HH2  | 1:A:18:LEU:HD13 | 20       | 9.67          |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG2  | 16       | 9.67          |
| (1,2904) | 1:A:11:TRP:HZ3  | 1:A:15:ARG:HG3  | 16       | 9.67          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 1        | 9.67          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2  | 8        | 9.67          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3  | 8        | 9.67          |
| (1,2553) | 1:A:10:GLY:HA3  | 1:A:26:CYS:H    | 11       | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2  | 2        | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3  | 2        | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2  | 5        | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3  | 5        | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2  | 10       | 9.67          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3  | 10       | 9.67          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1  | 7        | 9.67          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2  | 7        | 9.67          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD1  | 19       | 9.67          |
| (1,2505) | 1:A:10:GLY:HA2  | 1:A:25:TYR:HD2  | 19       | 9.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 20       | 9.67          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 20       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 16       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 16       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 16       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 16       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 18       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 18       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 18       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 18       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 19       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 19       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 19       | 9.67          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 19       | 9.67          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 15       | 9.67          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 15       | 9.67          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 9        | 9.67          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 1        | 9.67          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 3        | 9.67          |
| (1,2092) | 1:A:8:GLY:HA2  | 1:A:27:GLY:HA3  | 17       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 16       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 16       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 18       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 18       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 19       | 9.67          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 19       | 9.67          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 1        | 9.67          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 5        | 9.67          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 4        | 9.67          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 2        | 9.67          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 12       | 9.67          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 14       | 9.67          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 14       | 9.67          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE21 | 16       | 9.67          |
| (1,1489) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HE22 | 16       | 9.67          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 12       | 9.67          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 17       | 9.67          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 17       | 9.67          |
| (1,1262) | 1:A:4:ASN:HD21 | 1:A:15:ARG:H    | 14       | 9.67          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H    | 2        | 9.67          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H    | 10       | 9.67          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 6        | 9.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H    | 7        | 9.67          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H    | 19       | 9.67          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 18       | 9.66          |
| (1,868)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HA   | 20       | 9.66          |
| (1,726)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HG   | 8        | 9.66          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1  | 20       | 9.66          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2  | 20       | 9.66          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H    | 4        | 9.66          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H    | 4        | 9.66          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1  | 3        | 9.66          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1  | 3        | 9.66          |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA   | 6        | 9.66          |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H    | 1        | 9.66          |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H    | 8        | 9.66          |
| (1,4615) | 1:A:26:CYS:H    | 1:A:31:LYS:HA   | 4        | 9.66          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 17       | 9.66          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2  | 7        | 9.66          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 3        | 9.66          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 3        | 9.66          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 7        | 9.66          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 7        | 9.66          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 12       | 9.66          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 16       | 9.66          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 6        | 9.66          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 6        | 9.66          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 6        | 9.66          |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 6        | 9.66          |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 6        | 9.66          |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 6        | 9.66          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 6        | 9.66          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 18       | 9.66          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 18       | 9.66          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 7        | 9.66          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 7        | 9.66          |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 1        | 9.66          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 15       | 9.66          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 15       | 9.66          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2  | 3        | 9.66          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3  | 3        | 9.66          |
| (1,3554) | 1:A:17:GLY:H   | 1:A:21:SER:HB3  | 3        | 9.66          |
| (1,3538) | 1:A:16:GLY:HA3 | 1:A:30:PRO:HB3  | 10       | 9.66          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1  | 14       | 9.66          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2  | 14       | 9.66          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3  | 14       | 9.66          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB2  | 11       | 9.66          |
| (1,3469) | 1:A:16:GLY:H   | 1:A:25:TYR:HB3  | 11       | 9.66          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2  | 3        | 9.66          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3  | 3        | 9.66          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD2  | 11       | 9.66          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD2  | 11       | 9.66          |
| (1,3384) | 1:A:15:ARG:HG2 | 1:A:30:PRO:HD3  | 11       | 9.66          |
| (1,3384) | 1:A:15:ARG:HG3 | 1:A:30:PRO:HD3  | 11       | 9.66          |
| (1,3370) | 1:A:15:ARG:HG2 | 1:A:24:GLY:H    | 20       | 9.66          |
| (1,3370) | 1:A:15:ARG:HG3 | 1:A:24:GLY:H    | 20       | 9.66          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE21 | 15       | 9.66          |
| (1,3234) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HE22 | 15       | 9.66          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 9        | 9.66          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 9        | 9.66          |
| (1,3056) | 1:A:12:GLY:HA3 | 1:A:21:SER:HG   | 17       | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2  | 2        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 2        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2  | 6        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 6        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2  | 9        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 9        | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2  | 20       | 9.66          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 20       | 9.66          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 6        | 9.66          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 14       | 9.66          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 14       | 9.66          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 12       | 9.66          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 12       | 9.66          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 4        | 9.66          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 13       | 9.66          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 17       | 9.66          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1  | 4        | 9.66          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2  | 4        | 9.66          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1  | 6        | 9.66          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2  | 6        | 9.66          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 17       | 9.66          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 17       | 9.66          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 10       | 9.66          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 10       | 9.66          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 14       | 9.66          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 14       | 9.66          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 16       | 9.66          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 8        | 9.66          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 2        | 9.66          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 2        | 9.66          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 1        | 9.66          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 1        | 9.66          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2 | 3        | 9.66          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3 | 3        | 9.66          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 4        | 9.66          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2 | 7        | 9.66          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3 | 7        | 9.66          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 2        | 9.66          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 7        | 9.66          |
| (1,1207) | 1:A:4:ASN:HB3  | 1:A:19:CYS:HA  | 19       | 9.66          |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H   | 3        | 9.66          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 6        | 9.66          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 12       | 9.66          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 12       | 9.66          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2 | 2        | 9.65          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 12       | 9.65          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 12       | 9.65          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 7        | 9.65          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 7        | 9.65          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 1        | 9.65          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 1        | 9.65          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 19       | 9.65          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 19       | 9.65          |
| (1,625)  | 1:A:2:GLY:H    | 1:A:18:LEU:H   | 14       | 9.65          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 11       | 9.65          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 12       | 9.65          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 2        | 9.65          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 2        | 9.65          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3 | 2        | 9.65          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H   | 6        | 9.65          |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H   | 5        | 9.65          |
| (1,4421) | 1:A:23:TYR:HE2 | 1:A:29:GLY:H   | 5        | 9.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 18       | 9.65          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 18       | 9.65          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 16       | 9.65          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 6        | 9.65          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 11       | 9.65          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 11       | 9.65          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 3        | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 4        | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 4        | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 10       | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 10       | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 19       | 9.65          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 19       | 9.65          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 20       | 9.65          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 13       | 9.65          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 10       | 9.65          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 10       | 9.65          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 11       | 9.65          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 11       | 9.65          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 4        | 9.65          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 4        | 9.65          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 4        | 9.65          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 4        | 9.65          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 4        | 9.65          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 4        | 9.65          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 13       | 9.65          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 13       | 9.65          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 17       | 9.65          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 8        | 9.65          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 8        | 9.65          |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 15       | 9.65          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 14       | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 4        | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 4        | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 5        | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 5        | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 8        | 9.65          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 8        | 9.65          |
| (1,2976) | 1:A:11:TRP:HH2  | 1:A:25:TYR:HB3 | 5        | 9.65          |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2 | 1        | 9.65          |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3 | 1        | 9.65          |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG  | 13       | 9.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG  | 16       | 9.65          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 13       | 9.65          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 20       | 9.65          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 20       | 9.65          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 20       | 9.65          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 20       | 9.65          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 11       | 9.65          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 7        | 9.65          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 14       | 9.65          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 3        | 9.65          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 3        | 9.65          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 11       | 9.65          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2 | 6        | 9.65          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 1        | 9.65          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 9        | 9.65          |
| (1,1877) | 1:A:6:GLN:HE22 | 1:A:15:ARG:H   | 1        | 9.65          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 15       | 9.65          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 1        | 9.65          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 13       | 9.65          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 18       | 9.65          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 10       | 9.65          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 3        | 9.65          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2  | 17       | 9.65          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3 | 18       | 9.64          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 11       | 9.64          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 16       | 9.64          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA  | 19       | 9.64          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1 | 5        | 9.64          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2 | 5        | 9.64          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 4        | 9.64          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 11       | 9.64          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 18       | 9.64          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 18       | 9.64          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 12       | 9.64          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 15       | 9.64          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 18       | 9.64          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 9        | 9.64          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 9        | 9.64          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3 | 9        | 9.64          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 3        | 9.64          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 3        | 9.64          |
| (1,4615) | 1:A:26:CYS:H   | 1:A:31:LYS:HA  | 2        | 9.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H   | 11       | 9.64          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 19       | 9.64          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 18       | 9.64          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 11       | 9.64          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 11       | 9.64          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 2        | 9.64          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 19       | 9.64          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 19       | 9.64          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 4        | 9.64          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 4        | 9.64          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 2        | 9.64          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 11       | 9.64          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 12       | 9.64          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 1        | 9.64          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 1        | 9.64          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 1        | 9.64          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 2        | 9.64          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 3        | 9.64          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 3        | 9.64          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 3        | 9.64          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 16       | 9.64          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 16       | 9.64          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 16       | 9.64          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 10       | 9.64          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 4        | 9.64          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 4        | 9.64          |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3 | 5        | 9.64          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2 | 13       | 9.64          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3 | 13       | 9.64          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2 | 18       | 9.64          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3 | 18       | 9.64          |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 11       | 9.64          |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 11       | 9.64          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 18       | 9.64          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 18       | 9.64          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 1        | 9.64          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 1        | 9.64          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1 | 18       | 9.64          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2 | 18       | 9.64          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 12       | 9.64          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 12       | 9.64          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 18       | 9.64          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 18       | 9.64          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD11 | 9        | 9.64          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD12 | 9        | 9.64          |
| (1,2969) | 1:A:11:TRP:HH2 | 1:A:18:LEU:HD13 | 9        | 9.64          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 6        | 9.64          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 11       | 9.64          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 11       | 9.64          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 13       | 9.64          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 13       | 9.64          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 1        | 9.64          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 15       | 9.64          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 15       | 9.64          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 13       | 9.64          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 13       | 9.64          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 10       | 9.64          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 10       | 9.64          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 8        | 9.64          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 20       | 9.64          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 9        | 9.64          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 19       | 9.64          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 20       | 9.64          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA   | 17       | 9.64          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 9        | 9.64          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 15       | 9.64          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 7        | 9.64          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 5        | 9.64          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG2  | 11       | 9.64          |
| (1,1339) | 1:A:4:ASN:HD22 | 1:A:15:ARG:HG3  | 11       | 9.64          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 8        | 9.64          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 2        | 9.64          |
| (1,1147) | 1:A:4:ASN:HB2  | 1:A:22:GLN:H    | 4        | 9.64          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 13       | 9.64          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 5        | 9.64          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 10       | 9.64          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 11       | 9.64          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 14       | 9.63          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 14       | 9.63          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 18       | 9.63          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2  | 10       | 9.63          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3  | 10       | 9.63          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1  | 18       | 9.63          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2  | 18       | 9.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H   | 20       | 9.63          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 18       | 9.63          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 18       | 9.63          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 18       | 9.63          |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1 | 2        | 9.63          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2 | 10       | 9.63          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3 | 10       | 9.63          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 6        | 9.63          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 6        | 9.63          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 6        | 9.63          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 6        | 9.63          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 18       | 9.63          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 20       | 9.63          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 5        | 9.63          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 5        | 9.63          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 7        | 9.63          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 6        | 9.63          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 8        | 9.63          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 9        | 9.63          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 18       | 9.63          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 19       | 9.63          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2 | 20       | 9.63          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 10       | 9.63          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 10       | 9.63          |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 7        | 9.63          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 4        | 9.63          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 6        | 9.63          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 2        | 9.63          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 12       | 9.63          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 12       | 9.63          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB2 | 14       | 9.63          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB2 | 14       | 9.63          |
| (1,3367) | 1:A:15:ARG:HG2  | 1:A:23:TYR:HB3 | 14       | 9.63          |
| (1,3367) | 1:A:15:ARG:HG3  | 1:A:23:TYR:HB3 | 14       | 9.63          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 20       | 9.63          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 20       | 9.63          |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 13       | 9.63          |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE1 | 14       | 9.63          |
| (1,3203) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HE2 | 14       | 9.63          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 7        | 9.63          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 7        | 9.63          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 16       | 9.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3 | 16       | 9.63          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2 | 19       | 9.63          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3 | 19       | 9.63          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 14       | 9.63          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3 | 11       | 9.63          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 17       | 9.63          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 14       | 9.63          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 11       | 9.63          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 11       | 9.63          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 16       | 9.63          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 16       | 9.63          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H   | 12       | 9.63          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 2        | 9.63          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 10       | 9.63          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG  | 18       | 9.63          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG  | 19       | 9.63          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 15       | 9.63          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 12       | 9.63          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 4        | 9.63          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 10       | 9.63          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 1        | 9.63          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 1        | 9.63          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 12       | 9.63          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 12       | 9.63          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 12       | 9.63          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 12       | 9.63          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 12       | 9.63          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 12       | 9.63          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 11       | 9.63          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 1        | 9.63          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H   | 13       | 9.63          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 15       | 9.63          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 16       | 9.63          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3 | 18       | 9.63          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 13       | 9.63          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H   | 6        | 9.63          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H   | 4        | 9.63          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 9        | 9.62          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 12       | 9.62          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 1        | 9.62          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 1        | 9.62          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG  | 16       | 9.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H    | 12       | 9.62          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2  | 8        | 9.62          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2  | 8        | 9.62          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3  | 8        | 9.62          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3  | 8        | 9.62          |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2  | 6        | 9.62          |
| (1,4674) | 1:A:26:CYS:HB3  | 1:A:35:HIS:HE1  | 12       | 9.62          |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA   | 5        | 9.62          |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H    | 13       | 9.62          |
| (1,4598) | 1:A:25:TYR:HE1  | 1:A:33:CYS:H    | 2        | 9.62          |
| (1,4598) | 1:A:25:TYR:HE2  | 1:A:33:CYS:H    | 2        | 9.62          |
| (1,4554) | 1:A:25:TYR:HB3  | 1:A:35:HIS:H    | 6        | 9.62          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 5        | 9.62          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 11       | 9.62          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 11       | 9.62          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 11       | 9.62          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 5        | 9.62          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 5        | 9.62          |
| (1,4402) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HD3  | 14       | 9.62          |
| (1,4402) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HD3  | 14       | 9.62          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H    | 15       | 9.62          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 11       | 9.62          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 8        | 9.62          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA   | 4        | 9.62          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 5        | 9.62          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 17       | 9.62          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 17       | 9.62          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 4        | 9.62          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 5        | 9.62          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 5        | 9.62          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 5        | 9.62          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1  | 9        | 9.62          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2  | 9        | 9.62          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1  | 12       | 9.62          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2  | 12       | 9.62          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 1        | 9.62          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 1        | 9.62          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H    | 14       | 9.62          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 14       | 9.62          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H    | 12       | 9.62          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H    | 12       | 9.62          |
| (1,3390) | 1:A:15:ARG:HG2  | 1:A:34:ALA:HA   | 18       | 9.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3390) | 1:A:15:ARG:HG3 | 1:A:34:ALA:HA   | 18       | 9.62          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 9        | 9.62          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 12       | 9.62          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 18       | 9.62          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 19       | 9.62          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 1        | 9.62          |
| (1,3264) | 1:A:15:ARG:H   | 1:A:23:TYR:H    | 11       | 9.62          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 3        | 9.62          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 6        | 9.62          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3  | 15       | 9.62          |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA   | 3        | 9.62          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 9        | 9.62          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 13       | 9.62          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 14       | 9.62          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 14       | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 8        | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 8        | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 8        | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 8        | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 8        | 9.62          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 8        | 9.62          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 2        | 9.62          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 2        | 9.62          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 13       | 9.62          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 13       | 9.62          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 16       | 9.62          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 18       | 9.62          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 19       | 9.62          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 6        | 9.62          |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 19       | 9.62          |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 19       | 9.62          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 11       | 9.62          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 11       | 9.62          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 16       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 19       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 19       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 19       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 19       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 19       | 9.62          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 19       | 9.62          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 12       | 9.62          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 3        | 9.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 13       | 9.62          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 13       | 9.62          |
| (1,1641) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HB3  | 7        | 9.62          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 5        | 9.62          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 5        | 9.62          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H    | 4        | 9.62          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 15       | 9.62          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 15       | 9.62          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 16       | 9.62          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 12       | 9.62          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 8        | 9.61          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 8        | 9.61          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 10       | 9.61          |
| (1,958)  | 1:A:3:PRO:HD2  | 1:A:14:CYS:HB2  | 17       | 9.61          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1  | 4        | 9.61          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2  | 4        | 9.61          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 8        | 9.61          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 20       | 9.61          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1  | 14       | 9.61          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2  | 14       | 9.61          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2  | 2        | 9.61          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3  | 2        | 9.61          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2  | 16       | 9.61          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3  | 16       | 9.61          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1  | 9        | 9.61          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2  | 9        | 9.61          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1  | 11       | 9.61          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 14       | 9.61          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA   | 7        | 9.61          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2  | 15       | 9.61          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3  | 15       | 9.61          |
| (1,4592) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HB2  | 6        | 9.61          |
| (1,4592) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HB2  | 6        | 9.61          |
| (1,4554) | 1:A:25:TYR:HB3 | 1:A:35:HIS:H    | 20       | 9.61          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H    | 10       | 9.61          |
| (1,4402) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HD3  | 2        | 9.61          |
| (1,4402) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HD3  | 2        | 9.61          |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2  | 8        | 9.61          |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2  | 14       | 9.61          |
| (1,4363) | 1:A:23:TYR:HA  | 1:A:28:SER:H    | 7        | 9.61          |
| (1,4363) | 1:A:23:TYR:HA  | 1:A:28:SER:H    | 9        | 9.61          |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 1        | 9.61          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 20       | 9.61          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 1        | 9.61          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 2        | 9.61          |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 13       | 9.61          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 2        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 3        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 3        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 3        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 9        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 9        | 9.61          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 9        | 9.61          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 2        | 9.61          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 2        | 9.61          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 2        | 9.61          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 10       | 9.61          |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 6        | 9.61          |
| (1,3538) | 1:A:16:GLY:HA3  | 1:A:30:PRO:HB3  | 17       | 9.61          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB2  | 14       | 9.61          |
| (1,3469) | 1:A:16:GLY:H    | 1:A:25:TYR:HB3  | 14       | 9.61          |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG   | 11       | 9.61          |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG   | 11       | 9.61          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 18       | 9.61          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 18       | 9.61          |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2  | 11       | 9.61          |
| (1,3264) | 1:A:15:ARG:H    | 1:A:23:TYR:H    | 13       | 9.61          |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H    | 3        | 9.61          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA   | 14       | 9.61          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1  | 19       | 9.61          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2  | 19       | 9.61          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 15       | 9.61          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 15       | 9.61          |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 4        | 9.61          |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA   | 8        | 9.61          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 4        | 9.61          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 6        | 9.61          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 8        | 9.61          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 10       | 9.61          |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG   | 1        | 9.61          |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2  | 11       | 9.61          |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA   | 3        | 9.61          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE21 | 16       | 9.61          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE21 | 16       | 9.61          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 16       | 9.61          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 16       | 9.61          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 1        | 9.61          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 1        | 9.61          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 11       | 9.61          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 11       | 9.61          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 3        | 9.61          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 3        | 9.61          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 2        | 9.61          |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 18       | 9.61          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 15       | 9.61          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 16       | 9.61          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 19       | 9.61          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 9        | 9.61          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 12       | 9.61          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 8        | 9.61          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 12       | 9.61          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 12       | 9.61          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 11       | 9.61          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 11       | 9.61          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H    | 15       | 9.61          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 13       | 9.61          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 19       | 9.61          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 17       | 9.61          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 17       | 9.61          |
| (1,868)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HA   | 7        | 9.6           |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 4        | 9.6           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1  | 9        | 9.6           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2  | 9        | 9.6           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1  | 13       | 9.6           |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2  | 13       | 9.6           |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 16       | 9.6           |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2  | 3        | 9.6           |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA   | 17       | 9.6           |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H    | 3        | 9.6           |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H    | 17       | 9.6           |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2  | 13       | 9.6           |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 9        | 9.6           |
| (1,4350) | 1:A:23:TYR:H   | 1:A:30:PRO:HD2  | 17       | 9.6           |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG2  | 16       | 9.6           |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG3  | 16       | 9.6           |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG2  | 18       | 9.6           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 18       | 9.6           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 19       | 9.6           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 19       | 9.6           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 20       | 9.6           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 20       | 9.6           |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 18       | 9.6           |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 18       | 9.6           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2  | 12       | 9.6           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3  | 12       | 9.6           |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 3        | 9.6           |
| (1,4147) | 1:A:22:GLN:HA   | 1:A:30:PRO:HB2  | 15       | 9.6           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1  | 16       | 9.6           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2  | 16       | 9.6           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3  | 16       | 9.6           |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 19       | 9.6           |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 19       | 9.6           |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 19       | 9.6           |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 19       | 9.6           |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 9        | 9.6           |
| (1,3294) | 1:A:15:ARG:HB2  | 1:A:21:SER:HB3  | 7        | 9.6           |
| (1,3294) | 1:A:15:ARG:HB2  | 1:A:21:SER:HB3  | 20       | 9.6           |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1  | 5        | 9.6           |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2  | 12       | 9.6           |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H    | 13       | 9.6           |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2  | 1        | 9.6           |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3  | 1        | 9.6           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 1        | 9.6           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 1        | 9.6           |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 1        | 9.6           |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 2        | 9.6           |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 5        | 9.6           |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 11       | 9.6           |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 20       | 9.6           |
| (1,2685) | 1:A:11:TRP:HB3  | 1:A:19:CYS:H    | 5        | 9.6           |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG   | 8        | 9.6           |
| (1,2646) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HG   | 20       | 9.6           |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE   | 6        | 9.6           |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA   | 14       | 9.6           |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD11 | 16       | 9.6           |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD12 | 16       | 9.6           |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD13 | 16       | 9.6           |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD21 | 16       | 9.6           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 16       | 9.6           |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 16       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 7        | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 7        | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 16       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 16       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 18       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 18       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 19       | 9.6           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 19       | 9.6           |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 20       | 9.6           |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 20       | 9.6           |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H    | 5        | 9.6           |
| (1,2211) | 1:A:9:PRO:HB2  | 1:A:21:SER:H    | 17       | 9.6           |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 12       | 9.6           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 13       | 9.6           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 13       | 9.6           |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 7        | 9.6           |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 11       | 9.6           |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2  | 4        | 9.6           |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 19       | 9.6           |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 19       | 9.6           |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 19       | 9.6           |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 4        | 9.6           |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 4        | 9.6           |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 3        | 9.6           |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 3        | 9.6           |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 18       | 9.6           |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H    | 15       | 9.6           |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 2        | 9.6           |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 12       | 9.6           |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 19       | 9.6           |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 18       | 9.6           |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 9        | 9.6           |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 2        | 9.6           |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 10       | 9.6           |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 9        | 9.59          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 19       | 9.59          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2  | 17       | 9.59          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3  | 17       | 9.59          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 19       | 9.59          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1  | 15       | 9.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 15       | 9.59          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 17       | 9.59          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 17       | 9.59          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 7        | 9.59          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 7        | 9.59          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 14       | 9.59          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 5        | 9.59          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 8        | 9.59          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 14       | 9.59          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 11       | 9.59          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 13       | 9.59          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 13       | 9.59          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 3        | 9.59          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 10       | 9.59          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 12       | 9.59          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 3        | 9.59          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 7        | 9.59          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 7        | 9.59          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 6        | 9.59          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 6        | 9.59          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 4        | 9.59          |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA  | 16       | 9.59          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 6        | 9.59          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 14       | 9.59          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2 | 14       | 9.59          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 13       | 9.59          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 13       | 9.59          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 6        | 9.59          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 6        | 9.59          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 6        | 9.59          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3 | 20       | 9.59          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 14       | 9.59          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2 | 10       | 9.59          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3 | 10       | 9.59          |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA  | 20       | 9.59          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H   | 3        | 9.59          |
| (1,2684) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HG  | 1        | 9.59          |
| (1,2618) | 1:A:11:TRP:HA   | 1:A:18:LEU:HB2 | 1        | 9.59          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2 | 20       | 9.59          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3 | 20       | 9.59          |
| (1,2222) | 1:A:9:PRO:HB2   | 1:A:25:TYR:H   | 3        | 9.59          |
| (1,1877) | 1:A:6:GLN:HE22  | 1:A:15:ARG:H   | 11       | 9.59          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1865) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HA    | 18       | 9.59          |
| (1,1836) | 1:A:6:GLN:HE21  | 1:A:27:GLY:H    | 11       | 9.59          |
| (1,1288) | 1:A:4:ASN:HD21  | 1:A:27:GLY:H    | 14       | 9.59          |
| (1,1209) | 1:A:4:ASN:HB3   | 1:A:20:CYS:H    | 11       | 9.59          |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG   | 16       | 9.59          |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H    | 18       | 9.59          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB2  | 16       | 9.59          |
| (1,1109) | 1:A:4:ASN:H     | 1:A:32:TYR:HB3  | 16       | 9.59          |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2  | 9        | 9.58          |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3  | 9        | 9.58          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1  | 15       | 9.58          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2  | 15       | 9.58          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H    | 9        | 9.58          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2  | 11       | 9.58          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2  | 11       | 9.58          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3  | 11       | 9.58          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3  | 11       | 9.58          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2  | 20       | 9.58          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2  | 20       | 9.58          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3  | 20       | 9.58          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3  | 20       | 9.58          |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 10       | 9.58          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2  | 2        | 9.58          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 15       | 9.58          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 15       | 9.58          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 4        | 9.58          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 12       | 9.58          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2  | 5        | 9.58          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 5        | 9.58          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 9        | 9.58          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H    | 20       | 9.58          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2  | 1        | 9.58          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3  | 1        | 9.58          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 14       | 9.58          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 19       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 15       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 15       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 15       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 15       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 15       | 9.58          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 15       | 9.58          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 16       | 9.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3708) | 1:A:18:LEU:HB3 | 1:A:22:GLN:HE22 | 16       | 9.58          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2  | 7        | 9.58          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3  | 7        | 9.58          |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD1  | 14       | 9.58          |
| (1,3338) | 1:A:15:ARG:HB3 | 1:A:25:TYR:HD2  | 14       | 9.58          |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3  | 16       | 9.58          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2  | 18       | 9.58          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3  | 18       | 9.58          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 8        | 9.58          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 10       | 9.58          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 10       | 9.58          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 10       | 9.58          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 1        | 9.58          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 1        | 9.58          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 3        | 9.58          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 3        | 9.58          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1  | 3        | 9.58          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2  | 3        | 9.58          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2  | 11       | 9.58          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3  | 11       | 9.58          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 10       | 9.58          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2  | 15       | 9.58          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3  | 15       | 9.58          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3  | 12       | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 1        | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 1        | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 11       | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 11       | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2  | 15       | 9.58          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3  | 15       | 9.58          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2  | 1        | 9.58          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3  | 1        | 9.58          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 11       | 9.58          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 18       | 9.58          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 19       | 9.58          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 9        | 9.58          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 18       | 9.58          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 19       | 9.58          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 14       | 9.58          |
| (1,2646) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HG   | 7        | 9.58          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 1        | 9.58          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 2        | 9.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 4        | 9.58          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 5        | 9.58          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 10       | 9.58          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2  | 13       | 9.58          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3  | 13       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 18       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 18       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 18       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 18       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 18       | 9.58          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 18       | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 8        | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 8        | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 9        | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 9        | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 12       | 9.58          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 12       | 9.58          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 15       | 9.58          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 15       | 9.58          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 14       | 9.58          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 15       | 9.58          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 9        | 9.58          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 7        | 9.58          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 7        | 9.58          |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1  | 11       | 9.58          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 7        | 9.58          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 18       | 9.58          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 7        | 9.58          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 12       | 9.58          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 4        | 9.58          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 4        | 9.58          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H    | 3        | 9.58          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 15       | 9.58          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 7        | 9.58          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 19       | 9.58          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 16       | 9.58          |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 16       | 9.58          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 9        | 9.58          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 14       | 9.58          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 8        | 9.58          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2  | 20       | 9.58          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3  | 20       | 9.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 3        | 9.57          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 9        | 9.57          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 16       | 9.57          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 18       | 9.57          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 19       | 9.57          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 14       | 9.57          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 14       | 9.57          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 19       | 9.57          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 3        | 9.57          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 3        | 9.57          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1 | 20       | 9.57          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2 | 20       | 9.57          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3 | 20       | 9.57          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 8        | 9.57          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1 | 17       | 9.57          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2 | 17       | 9.57          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3 | 17       | 9.57          |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2 | 7        | 9.57          |
| (1,4438) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HB2 | 7        | 9.57          |
| (1,4175) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HB2 | 10       | 9.57          |
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ1 | 5        | 9.57          |
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ2 | 5        | 9.57          |
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ3 | 5        | 9.57          |
| (1,3855) | 1:A:19:CYS:HA  | 1:A:23:TYR:HE1 | 8        | 9.57          |
| (1,3855) | 1:A:19:CYS:HA  | 1:A:23:TYR:HE2 | 8        | 9.57          |
| (1,3732) | 1:A:18:LEU:HG  | 1:A:22:GLN:H   | 14       | 9.57          |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3 | 4        | 9.57          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG2 | 12       | 9.57          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG3 | 12       | 9.57          |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2 | 19       | 9.57          |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3 | 19       | 9.57          |
| (1,3554) | 1:A:17:GLY:H   | 1:A:21:SER:HB3 | 5        | 9.57          |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD2 | 15       | 9.57          |
| (1,3349) | 1:A:15:ARG:HB3 | 1:A:30:PRO:HD3 | 15       | 9.57          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2 | 19       | 9.57          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3 | 19       | 9.57          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3 | 8        | 9.57          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 18       | 9.57          |
| (1,3250) | 1:A:14:CYS:HB3 | 1:A:30:PRO:HD3 | 19       | 9.57          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3 | 7        | 9.57          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 6        | 9.57          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 6        | 9.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1  | 12       | 9.57          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2  | 12       | 9.57          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 2        | 9.57          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 2        | 9.57          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 1        | 9.57          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 6        | 9.57          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 9        | 9.57          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 15       | 9.57          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 12       | 9.57          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 6        | 9.57          |
| (1,2551) | 1:A:10:GLY:HA3 | 1:A:25:TYR:H    | 17       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 19       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 20       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 20       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 20       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 20       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 20       | 9.57          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 20       | 9.57          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 11       | 9.57          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 11       | 9.57          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 11       | 9.57          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 11       | 9.57          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 1        | 9.57          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 1        | 9.57          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 4        | 9.57          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 4        | 9.57          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 20       | 9.57          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 7        | 9.57          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 18       | 9.57          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 19       | 9.57          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 20       | 9.57          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 20       | 9.57          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 20       | 9.57          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 3        | 9.57          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 3        | 9.57          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 5        | 9.57          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 5        | 9.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 6        | 9.57          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 6        | 9.57          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG2 | 20       | 9.57          |
| (1,1965) | 1:A:7:CYS:H    | 1:A:31:LYS:HG3 | 20       | 9.57          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 19       | 9.57          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 8        | 9.57          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 16       | 9.57          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H   | 9        | 9.57          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H   | 12       | 9.57          |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 20       | 9.57          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 17       | 9.57          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 6        | 9.57          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2  | 14       | 9.57          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3  | 14       | 9.57          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 1        | 9.57          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 1        | 9.57          |
| (1,1256) | 1:A:4:ASN:HD21 | 1:A:10:GLY:H   | 9        | 9.57          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H   | 12       | 9.57          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 8        | 9.57          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2 | 18       | 9.57          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3 | 18       | 9.57          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 5        | 9.57          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3 | 19       | 9.56          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 13       | 9.56          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 13       | 9.56          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 4        | 9.56          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H   | 7        | 9.56          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 4        | 9.56          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 6        | 9.56          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 6        | 9.56          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB2 | 17       | 9.56          |
| (1,664)  | 1:A:2:GLY:H    | 1:A:32:TYR:HB3 | 17       | 9.56          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 7        | 9.56          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 8        | 9.56          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 18       | 9.56          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 3        | 9.56          |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 1        | 9.56          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 10       | 9.56          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 12       | 9.56          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 12       | 9.56          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2 | 12       | 9.56          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3 | 12       | 9.56          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 3        | 9.56          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 3        | 9.56          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 14       | 9.56          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 11       | 9.56          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 4        | 9.56          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 11       | 9.56          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 10       | 9.56          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 10       | 9.56          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 15       | 9.56          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 16       | 9.56          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 16       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 15       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 15       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 15       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 15       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 15       | 9.56          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 15       | 9.56          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 12       | 9.56          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 14       | 9.56          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 14       | 9.56          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 14       | 9.56          |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 16       | 9.56          |
| (1,3633) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB2 | 18       | 9.56          |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2 | 14       | 9.56          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 15       | 9.56          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 19       | 9.56          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 19       | 9.56          |
| (1,3370) | 1:A:15:ARG:HG2  | 1:A:24:GLY:H   | 11       | 9.56          |
| (1,3370) | 1:A:15:ARG:HG3  | 1:A:24:GLY:H   | 11       | 9.56          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 3        | 9.56          |
| (1,3250) | 1:A:14:CYS:HB3  | 1:A:30:PRO:HD3 | 16       | 9.56          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1 | 4        | 9.56          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2 | 4        | 9.56          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3 | 14       | 9.56          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H   | 6        | 9.56          |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA  | 4        | 9.56          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H   | 7        | 9.56          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB2 | 4        | 9.56          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB3 | 4        | 9.56          |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA  | 11       | 9.56          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB2 | 15       | 9.56          |
| (1,2528) | 1:A:10:GLY:HA3  | 1:A:14:CYS:HB3 | 15       | 9.56          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 15       | 9.56          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 11       | 9.56          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 8        | 9.56          |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE21 | 11       | 9.56          |
| (1,2163) | 1:A:9:PRO:HA   | 1:A:22:GLN:HE22 | 11       | 9.56          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 12       | 9.56          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 12       | 9.56          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 12       | 9.56          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 7        | 9.56          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 2        | 9.56          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 2        | 9.56          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 19       | 9.56          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 1        | 9.56          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 8        | 9.56          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 8        | 9.56          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 17       | 9.56          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 17       | 9.56          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 4        | 9.56          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 4        | 9.56          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H    | 19       | 9.56          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H    | 13       | 9.56          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 11       | 9.56          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 14       | 9.56          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 8        | 9.56          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB2  | 19       | 9.56          |
| (1,1109) | 1:A:4:ASN:H    | 1:A:32:TYR:HB3  | 19       | 9.56          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 17       | 9.56          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 17       | 9.56          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 15       | 9.55          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG   | 13       | 9.55          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 7        | 9.55          |
| (1,726)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HG   | 20       | 9.55          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 16       | 9.55          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA   | 9        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2  | 1        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3  | 1        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2  | 3        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3  | 3        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2  | 6        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3  | 6        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2  | 9        | 9.55          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3  | 9        | 9.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 2        | 9.55          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 17       | 9.55          |
| (1,4363) | 1:A:23:TYR:HA   | 1:A:28:SER:H   | 12       | 9.55          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 9        | 9.55          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 9        | 9.55          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 11       | 9.55          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 11       | 9.55          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 8        | 9.55          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 8        | 9.55          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 19       | 9.55          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 16       | 9.55          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 18       | 9.55          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 18       | 9.55          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 20       | 9.55          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 20       | 9.55          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 15       | 9.55          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 5        | 9.55          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 5        | 9.55          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 8        | 9.55          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 7        | 9.55          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 7        | 9.55          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 16       | 9.55          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H   | 13       | 9.55          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H   | 13       | 9.55          |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 19       | 9.55          |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 19       | 9.55          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 6        | 9.55          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 6        | 9.55          |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG  | 15       | 9.55          |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG  | 15       | 9.55          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H   | 5        | 9.55          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H   | 17       | 9.55          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 1        | 9.55          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA2 | 13       | 9.55          |
| (1,3018) | 1:A:12:GLY:H    | 1:A:27:GLY:HA3 | 13       | 9.55          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 14       | 9.55          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 8        | 9.55          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 16       | 9.55          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H   | 2        | 9.55          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H   | 3        | 9.55          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H   | 5        | 9.55          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H   | 10       | 9.55          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 20       | 9.55          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 20       | 9.55          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 7        | 9.55          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 16       | 9.55          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 16       | 9.55          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 1        | 9.55          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 15       | 9.55          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 3        | 9.55          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 3        | 9.55          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1  | 1        | 9.55          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2  | 1        | 9.55          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 13       | 9.55          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 13       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD11 | 17       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD12 | 17       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD13 | 17       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD21 | 17       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD22 | 17       | 9.55          |
| (1,2380) | 1:A:9:PRO:HG3  | 1:A:18:LEU:HD23 | 17       | 9.55          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 12       | 9.55          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 12       | 9.55          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 8        | 9.55          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 13       | 9.55          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 16       | 9.55          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 16       | 9.55          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 16       | 9.55          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 17       | 9.55          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 17       | 9.55          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 5        | 9.55          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 5        | 9.55          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 6        | 9.55          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 6        | 9.55          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 4        | 9.55          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 4        | 9.55          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 12       | 9.55          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 20       | 9.55          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 16       | 9.55          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 18       | 9.55          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 15       | 9.55          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 16       | 9.55          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 19       | 9.55          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 1        | 9.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1599) | 1:A:6:GLN:HB2   | 1:A:22:GLN:H   | 13       | 9.55          |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H   | 14       | 9.55          |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA2 | 12       | 9.55          |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA3 | 12       | 9.55          |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 8        | 9.55          |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 12       | 9.55          |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 18       | 9.55          |
| (1,1160) | 1:A:4:ASN:HB2   | 1:A:28:SER:H   | 1        | 9.55          |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H   | 7        | 9.55          |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H   | 17       | 9.55          |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 7        | 9.55          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 8        | 9.54          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 15       | 9.54          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 3        | 9.54          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 4        | 9.54          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 4        | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 11       | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 11       | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 14       | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 14       | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 15       | 9.54          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 15       | 9.54          |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1 | 20       | 9.54          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA  | 8        | 9.54          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 13       | 9.54          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 15       | 9.54          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 15       | 9.54          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 15       | 9.54          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 15       | 9.54          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 1        | 9.54          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 2        | 9.54          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 13       | 9.54          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 15       | 9.54          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 1        | 9.54          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 1        | 9.54          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 14       | 9.54          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 14       | 9.54          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 7        | 9.54          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 7        | 9.54          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 6        | 9.54          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 6        | 9.54          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 12       | 9.54          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 12       | 9.54          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 1        | 9.54          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H    | 10       | 9.54          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 19       | 9.54          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 19       | 9.54          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 10       | 9.54          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 10       | 9.54          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 10       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 18       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 18       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 18       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 18       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 18       | 9.54          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 18       | 9.54          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 10       | 9.54          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2  | 10       | 9.54          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H    | 7        | 9.54          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 10       | 9.54          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 7        | 9.54          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3  | 7        | 9.54          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 20       | 9.54          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 20       | 9.54          |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 12       | 9.54          |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE1  | 14       | 9.54          |
| (1,3238) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HE2  | 14       | 9.54          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H    | 1        | 9.54          |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3  | 1        | 9.54          |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 5        | 9.54          |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 10       | 9.54          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 7        | 9.54          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 18       | 9.54          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 19       | 9.54          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 20       | 9.54          |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB2  | 17       | 9.54          |
| (1,2860) | 1:A:11:TRP:HE1  | 1:A:22:GLN:HB3  | 17       | 9.54          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H    | 4        | 9.54          |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA   | 15       | 9.54          |
| (1,2652) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HA   | 8        | 9.54          |
| (1,2652) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HA   | 11       | 9.54          |
| (1,2652) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HA   | 12       | 9.54          |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA   | 15       | 9.54          |
| (1,2535) | 1:A:10:GLY:HA3  | 1:A:18:LEU:HD11 | 9        | 9.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 9        | 9.54          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 9        | 9.54          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 9        | 9.54          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 9        | 9.54          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 9        | 9.54          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 17       | 9.54          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 17       | 9.54          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 15       | 9.54          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 15       | 9.54          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 7        | 9.54          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 7        | 9.54          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 7        | 9.54          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 7        | 9.54          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 2        | 9.54          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 5        | 9.54          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 11       | 9.54          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 11       | 9.54          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 17       | 9.54          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 7        | 9.54          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 8        | 9.54          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 1        | 9.54          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 8        | 9.54          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 15       | 9.54          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 11       | 9.54          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 9        | 9.54          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 18       | 9.54          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 11       | 9.54          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 20       | 9.54          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 1        | 9.54          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 13       | 9.54          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H    | 16       | 9.54          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 8        | 9.54          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 14       | 9.54          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG   | 1        | 9.53          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H    | 16       | 9.53          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H    | 16       | 9.53          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H    | 4        | 9.53          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA   | 6        | 9.53          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 3        | 9.53          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2  | 3        | 9.53          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 17       | 9.53          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 18       | 9.53          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,565)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HG2  | 10       | 9.53          |
| (1,565)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HG2  | 10       | 9.53          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1  | 15       | 9.53          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2  | 6        | 9.53          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3  | 6        | 9.53          |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H    | 19       | 9.53          |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H    | 16       | 9.53          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2  | 8        | 9.53          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3  | 8        | 9.53          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 3        | 9.53          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 3        | 9.53          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 6        | 9.53          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 6        | 9.53          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 8        | 9.53          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 7        | 9.53          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 10       | 9.53          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 10       | 9.53          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 20       | 9.53          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 20       | 9.53          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2  | 9        | 9.53          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 2        | 9.53          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 17       | 9.53          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 17       | 9.53          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2  | 3        | 9.53          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3  | 3        | 9.53          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 3        | 9.53          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2  | 9        | 9.53          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3  | 9        | 9.53          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2  | 19       | 9.53          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2  | 17       | 9.53          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H    | 1        | 9.53          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1  | 19       | 9.53          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2  | 19       | 9.53          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 19       | 9.53          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 19       | 9.53          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 7        | 9.53          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 7        | 9.53          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H    | 7        | 9.53          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1  | 7        | 9.53          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2  | 7        | 9.53          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H    | 17       | 9.53          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 17       | 9.53          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H    | 18       | 9.53          |
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H    | 19       | 9.53          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2  | 2        | 9.53          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3  | 2        | 9.53          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2  | 16       | 9.53          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3  | 16       | 9.53          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H    | 10       | 9.53          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 9        | 9.53          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3  | 9        | 9.53          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 15       | 9.53          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 15       | 9.53          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 3        | 9.53          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 7        | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 13       | 9.53          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 13       | 9.53          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 12       | 9.53          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 12       | 9.53          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 4        | 9.53          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 6        | 9.53          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 10       | 9.53          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 12       | 9.53          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 1        | 9.53          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 7        | 9.53          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 7        | 9.53          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 14       | 9.53          |
| (1,2102) | 1:A:8:GLY:HA2  | 1:A:35:HIS:H    | 17       | 9.53          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB2  | 15       | 9.53          |
| (1,1878) | 1:A:6:GLN:HE22 | 1:A:15:ARG:HB3  | 15       | 9.53          |
| (1,1874) | 1:A:6:GLN:HE22 | 1:A:13:GLY:HA3  | 17       | 9.53          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 16       | 9.53          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 18       | 9.53          |
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H    | 19       | 9.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1836) | 1:A:6:GLN:HE21 | 1:A:27:GLY:H   | 20       | 9.53          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 12       | 9.53          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H   | 20       | 9.53          |
| (1,1633) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HE  | 7        | 9.53          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 3        | 9.53          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 4        | 9.53          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 6        | 9.53          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 18       | 9.53          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H   | 19       | 9.53          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 6        | 9.53          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3 | 4        | 9.53          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 11       | 9.53          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 8        | 9.53          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 8        | 9.53          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 19       | 9.53          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 19       | 9.53          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 18       | 9.53          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2  | 19       | 9.53          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 1        | 9.53          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 4        | 9.53          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 4        | 9.53          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H   | 14       | 9.53          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE1 | 2        | 9.52          |
| (1,742)  | 1:A:2:GLY:HA3  | 1:A:32:TYR:HE2 | 2        | 9.52          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 2        | 9.52          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 2        | 9.52          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2 | 4        | 9.52          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3 | 4        | 9.52          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 4        | 9.52          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 1        | 9.52          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 11       | 9.52          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 18       | 9.52          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 19       | 9.52          |
| (1,4657) | 1:A:26:CYS:HB2 | 1:A:31:LYS:H   | 20       | 9.52          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 6        | 9.52          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2 | 13       | 9.52          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3 | 13       | 9.52          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 4        | 9.52          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 4        | 9.52          |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2 | 3        | 9.52          |
| (1,4555) | 1:A:25:TYR:HB3 | 1:A:35:HIS:HD2 | 19       | 9.52          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 7        | 9.52          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 11       | 9.52          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H    | 15       | 9.52          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2  | 12       | 9.52          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3  | 12       | 9.52          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 8        | 9.52          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2  | 12       | 9.52          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 15       | 9.52          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 4        | 9.52          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 4        | 9.52          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H    | 12       | 9.52          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 2        | 9.52          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2  | 10       | 9.52          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 14       | 9.52          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 14       | 9.52          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 3        | 9.52          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 3        | 9.52          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 9        | 9.52          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 9        | 9.52          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 9        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 1        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 1        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 1        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 1        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 1        | 9.52          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 1        | 9.52          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 12       | 9.52          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 18       | 9.52          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 15       | 9.52          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 15       | 9.52          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1  | 8        | 9.52          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2  | 8        | 9.52          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3  | 8        | 9.52          |
| (1,3416) | 1:A:15:ARG:HD2  | 1:A:33:CYS:H    | 15       | 9.52          |
| (1,3416) | 1:A:15:ARG:HD3  | 1:A:33:CYS:H    | 15       | 9.52          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 3        | 9.52          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H    | 14       | 9.52          |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG   | 14       | 9.52          |
| (1,3002) | 1:A:12:GLY:H    | 1:A:22:GLN:HA   | 17       | 9.52          |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 12       | 9.52          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 11       | 9.52          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 11       | 9.52          |
| (1,2696) | 1:A:11:TRP:HB3  | 1:A:23:TYR:H    | 13       | 9.52          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 13       | 9.52          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 18       | 9.52          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 19       | 9.52          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 20       | 9.52          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 2        | 9.52          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 2        | 9.52          |
| (1,2540) | 1:A:10:GLY:HA3 | 1:A:20:CYS:HB3  | 17       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 15       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 15       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 15       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 15       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 15       | 9.52          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 15       | 9.52          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1  | 13       | 9.52          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2  | 13       | 9.52          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 3        | 9.52          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 9        | 9.52          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 4        | 9.52          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 4        | 9.52          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 12       | 9.52          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 8        | 9.52          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 8        | 9.52          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 8        | 9.52          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 8        | 9.52          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 17       | 9.52          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 14       | 9.52          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 14       | 9.52          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 8        | 9.52          |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 20       | 9.52          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 5        | 9.52          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 9        | 9.52          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 14       | 9.52          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 15       | 9.52          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 15       | 9.52          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 10       | 9.52          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H    | 12       | 9.52          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 7        | 9.52          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 19       | 9.52          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 12       | 9.52          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 8        | 9.52          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 8        | 9.52          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 9        | 9.51          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3 | 9        | 9.51          |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H   | 4        | 9.51          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2 | 15       | 9.51          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2 | 15       | 9.51          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 15       | 9.51          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 15       | 9.51          |
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 17       | 9.51          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 17       | 9.51          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 17       | 9.51          |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA  | 8        | 9.51          |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 9        | 9.51          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 5        | 9.51          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 5        | 9.51          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2 | 2        | 9.51          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2 | 2        | 9.51          |
| (1,4499) | 1:A:24:GLY:HA3  | 1:A:33:CYS:H   | 1        | 9.51          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 14       | 9.51          |
| (1,4350) | 1:A:23:TYR:H    | 1:A:30:PRO:HD2 | 4        | 9.51          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 12       | 9.51          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 12       | 9.51          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 11       | 9.51          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 11       | 9.51          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 10       | 9.51          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 10       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 14       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 14       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 14       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 14       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 14       | 9.51          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 14       | 9.51          |
| (1,3758) | 1:A:18:LEU:HG   | 1:A:35:HIS:H   | 15       | 9.51          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 13       | 9.51          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 16       | 9.51          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 11       | 9.51          |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H   | 4        | 9.51          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA  | 3        | 9.51          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 11       | 9.51          |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2 | 9        | 9.51          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3 | 7        | 9.51          |
| (1,2996) | 1:A:12:GLY:H    | 1:A:19:CYS:HB3 | 20       | 9.51          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB2 | 5        | 9.51          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB3 | 5        | 9.51          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 5        | 9.51          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 10       | 9.51          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H    | 14       | 9.51          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 16       | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 1        | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 1        | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 1        | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 1        | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 1        | 9.51          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 1        | 9.51          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 11       | 9.51          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 11       | 9.51          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 13       | 9.51          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 13       | 9.51          |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 9        | 9.51          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 14       | 9.51          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 14       | 9.51          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H    | 17       | 9.51          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 9        | 9.51          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 9        | 9.51          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 4        | 9.51          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 4        | 9.51          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 19       | 9.51          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 19       | 9.51          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 10       | 9.51          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 16       | 9.51          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 20       | 9.51          |
| (1,1710) | 1:A:6:GLN:HG2  | 1:A:19:CYS:H    | 7        | 9.51          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 2        | 9.51          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 10       | 9.51          |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 16       | 9.51          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 18       | 9.51          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 12       | 9.51          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 18       | 9.51          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 18       | 9.51          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 6        | 9.51          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 14       | 9.51          |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 11       | 9.51          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 3        | 9.51          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 4        | 9.51          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 11       | 9.51          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 18       | 9.51          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H    | 16       | 9.51          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3  | 2        | 9.5           |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3  | 10       | 9.5           |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2  | 11       | 9.5           |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3  | 11       | 9.5           |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 2        | 9.5           |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2  | 6        | 9.5           |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA   | 12       | 9.5           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 4        | 9.5           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 4        | 9.5           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 6        | 9.5           |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 6        | 9.5           |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2  | 17       | 9.5           |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3  | 17       | 9.5           |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2  | 5        | 9.5           |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2  | 5        | 9.5           |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3  | 5        | 9.5           |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3  | 5        | 9.5           |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 12       | 9.5           |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2  | 1        | 9.5           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2  | 8        | 9.5           |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3  | 8        | 9.5           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 13       | 9.5           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 13       | 9.5           |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 9        | 9.5           |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3  | 15       | 9.5           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2  | 10       | 9.5           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3  | 10       | 9.5           |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 13       | 9.5           |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 8        | 9.5           |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 8        | 9.5           |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 8        | 9.5           |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 15       | 9.5           |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 15       | 9.5           |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 15       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 14       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 14       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 14       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 14       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 14       | 9.5           |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 14       | 9.5           |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1  | 16       | 9.5           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3710) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HE2 | 16       | 9.5           |
| (1,3681) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HB2 | 15       | 9.5           |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2 | 14       | 9.5           |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 14       | 9.5           |
| (1,3663) | 1:A:18:LEU:H   | 1:A:34:ALA:HA  | 2        | 9.5           |
| (1,3663) | 1:A:18:LEU:H   | 1:A:34:ALA:HA  | 10       | 9.5           |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB2 | 4        | 9.5           |
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3 | 4        | 9.5           |
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H   | 20       | 9.5           |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H   | 17       | 9.5           |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 10       | 9.5           |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 10       | 9.5           |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H   | 16       | 9.5           |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 2        | 9.5           |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 6        | 9.5           |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 4        | 9.5           |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA  | 13       | 9.5           |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1 | 8        | 9.5           |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2 | 8        | 9.5           |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H   | 11       | 9.5           |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1 | 6        | 9.5           |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2 | 6        | 9.5           |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 16       | 9.5           |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 16       | 9.5           |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 8        | 9.5           |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 18       | 9.5           |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 12       | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 2        | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 2        | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 6        | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 6        | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 10       | 9.5           |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 10       | 9.5           |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 2        | 9.5           |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 10       | 9.5           |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 16       | 9.5           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2 | 1        | 9.5           |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3 | 1        | 9.5           |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 1        | 9.5           |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 1        | 9.5           |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 15       | 9.5           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 8        | 9.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 8        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 8        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 8        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 9        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 9        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 9        | 9.5           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 9        | 9.5           |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 9        | 9.5           |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 20       | 9.5           |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 18       | 9.5           |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 18       | 9.5           |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 12       | 9.5           |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 12       | 9.5           |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 7        | 9.5           |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 7        | 9.5           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 2        | 9.5           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 4        | 9.5           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 5        | 9.5           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 6        | 9.5           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 10       | 9.5           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 1        | 9.5           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 1        | 9.5           |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 12       | 9.5           |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 10       | 9.5           |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 10       | 9.5           |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H    | 15       | 9.5           |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 7        | 9.5           |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H    | 18       | 9.5           |
| (1,1772) | 1:A:6:GLN:HG3  | 1:A:28:SER:H    | 11       | 9.5           |
| (1,1599) | 1:A:6:GLN:HB2  | 1:A:22:GLN:H    | 7        | 9.5           |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 17       | 9.5           |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H    | 2        | 9.5           |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2  | 14       | 9.5           |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3  | 14       | 9.5           |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H    | 8        | 9.5           |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 10       | 9.5           |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 19       | 9.5           |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 19       | 9.5           |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB2  | 20       | 9.5           |
| (1,1228) | 1:A:4:ASN:HB3  | 1:A:28:SER:HB3  | 20       | 9.5           |
| (1,1184) | 1:A:4:ASN:HB3  | 1:A:8:GLY:HA2   | 16       | 9.5           |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA   | 3        | 9.5           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 16       | 9.49          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 12       | 9.49          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 12       | 9.49          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 12       | 9.49          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 12       | 9.49          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H   | 4        | 9.49          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 4        | 9.49          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 4        | 9.49          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 15       | 9.49          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 3        | 9.49          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 6        | 9.49          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 7        | 9.49          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 1        | 9.49          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 1        | 9.49          |
| (1,4591) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HA  | 2        | 9.49          |
| (1,4591) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HA  | 2        | 9.49          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 9        | 9.49          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H   | 1        | 9.49          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H   | 11       | 9.49          |
| (1,4366) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB2 | 4        | 9.49          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG2 | 13       | 9.49          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG3 | 13       | 9.49          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG2 | 15       | 9.49          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG3 | 15       | 9.49          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H   | 2        | 9.49          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 8        | 9.49          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 8        | 9.49          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 13       | 9.49          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 13       | 9.49          |
| (1,4189) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA2 | 5        | 9.49          |
| (1,4189) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA2 | 18       | 9.49          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG2 | 1        | 9.49          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG3 | 1        | 9.49          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG2 | 4        | 9.49          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG3 | 4        | 9.49          |
| (1,4099) | 1:A:21:SER:HG  | 1:A:35:HIS:H   | 4        | 9.49          |
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1 | 6        | 9.49          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD1 | 8        | 9.49          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD2 | 8        | 9.49          |
| (1,3663) | 1:A:18:LEU:H   | 1:A:34:ALA:HA  | 4        | 9.49          |
| (1,3647) | 1:A:18:LEU:H   | 1:A:24:GLY:HA2 | 16       | 9.49          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2 | 10       | 9.49          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3 | 10       | 9.49          |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG  | 19       | 9.49          |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG  | 19       | 9.49          |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H   | 6        | 9.49          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H   | 4        | 9.49          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 2        | 9.49          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 3        | 9.49          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 10       | 9.49          |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA  | 15       | 9.49          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 16       | 9.49          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 19       | 9.49          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 3        | 9.49          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 13       | 9.49          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 13       | 9.49          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 13       | 9.49          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 3        | 9.49          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 3        | 9.49          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA  | 13       | 9.49          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 7        | 9.49          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 3        | 9.49          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 4        | 9.49          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 8        | 9.49          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 9        | 9.49          |
| (1,2421) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HD2 | 1        | 9.49          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 8        | 9.49          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 14       | 9.49          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 19       | 9.49          |
| (1,2263) | 1:A:9:PRO:HB3  | 1:A:23:TYR:HA  | 17       | 9.49          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 4        | 9.49          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 4        | 9.49          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 6        | 9.49          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 6        | 9.49          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 14       | 9.49          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 15       | 9.49          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 9        | 9.49          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 8        | 9.49          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 8        | 9.49          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 11       | 9.49          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 11       | 9.49          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 12       | 9.49          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 12       | 9.49          |
| (1,1898) | 1:A:6:GLN:HE22 | 1:A:27:GLY:H   | 19       | 9.49          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H   | 7        | 9.49          |
| (1,1364) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HA  | 6        | 9.49          |
| (1,1361) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HB2 | 9        | 9.49          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB2 | 14       | 9.49          |
| (1,1336) | 1:A:4:ASN:HD22  | 1:A:14:CYS:HB3 | 14       | 9.49          |
| (1,1257) | 1:A:4:ASN:HD21  | 1:A:12:GLY:H   | 7        | 9.49          |
| (1,1251) | 1:A:4:ASN:HD21  | 1:A:8:GLY:H    | 5        | 9.49          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB2 | 18       | 9.49          |
| (1,1228) | 1:A:4:ASN:HB3   | 1:A:28:SER:HB3 | 18       | 9.49          |
| (1,1184) | 1:A:4:ASN:HB3   | 1:A:8:GLY:HA2  | 13       | 9.49          |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H   | 15       | 9.49          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2 | 19       | 9.49          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 19       | 9.49          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 5        | 9.48          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 20       | 9.48          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 9        | 9.48          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 9        | 9.48          |
| (1,849)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HE  | 14       | 9.48          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 2        | 9.48          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 10       | 9.48          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 20       | 9.48          |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2 | 4        | 9.48          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 20       | 9.48          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 5        | 9.48          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 5        | 9.48          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 5        | 9.48          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 10       | 9.48          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 10       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 4        | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 4        | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 18       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 18       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 19       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 19       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 20       | 9.48          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 20       | 9.48          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 9        | 9.48          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 9        | 9.48          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 7        | 9.48          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 5        | 9.48          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 10       | 9.48          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 14       | 9.48          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2  | 17       | 9.48          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 2        | 9.48          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 2        | 9.48          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2  | 9        | 9.48          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3  | 9        | 9.48          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2  | 8        | 9.48          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3  | 8        | 9.48          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 8        | 9.48          |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 10       | 9.48          |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 10       | 9.48          |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 10       | 9.48          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 1        | 9.48          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 1        | 9.48          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 1        | 9.48          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 2        | 9.48          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 2        | 9.48          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 2        | 9.48          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 3        | 9.48          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 4        | 9.48          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 18       | 9.48          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 19       | 9.48          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 9        | 9.48          |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 9        | 9.48          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2  | 15       | 9.48          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3  | 15       | 9.48          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 7        | 9.48          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 7        | 9.48          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 17       | 9.48          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 7        | 9.48          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 7        | 9.48          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 2        | 9.48          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 16       | 9.48          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 16       | 9.48          |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2  | 19       | 9.48          |
| (1,2945) | 1:A:11:TRP:HZ2  | 1:A:26:CYS:HB2  | 15       | 9.48          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H    | 9        | 9.48          |
| (1,2753) | 1:A:11:TRP:HD1  | 1:A:27:GLY:H    | 12       | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB2  | 1        | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB3  | 1        | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB2  | 4        | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB3  | 4        | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1  | 1:A:19:CYS:HB2  | 9        | 9.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3  | 9        | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2  | 11       | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3  | 11       | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2  | 20       | 9.48          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3  | 20       | 9.48          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 2        | 9.48          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 18       | 9.48          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 19       | 9.48          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 9        | 9.48          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 16       | 9.48          |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 11       | 9.48          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 5        | 9.48          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 6        | 9.48          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 18       | 9.48          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2  | 19       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 11       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 11       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 11       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 11       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 11       | 9.48          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 11       | 9.48          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 8        | 9.48          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 20       | 9.48          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 15       | 9.48          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 15       | 9.48          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 15       | 9.48          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 15       | 9.48          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 4        | 9.48          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 4        | 9.48          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 7        | 9.48          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 12       | 9.48          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 16       | 9.48          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 18       | 9.48          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 6        | 9.48          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 6        | 9.48          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 7        | 9.48          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 14       | 9.48          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 16       | 9.48          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 19       | 9.48          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 20       | 9.48          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 7        | 9.48          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 3        | 9.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 9.48          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 9.48          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 9.48          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 15       | 9.48          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 15       | 9.48          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 3        | 9.48          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 3        | 9.48          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 20       | 9.48          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 20       | 9.48          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 16       | 9.48          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 14       | 9.48          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 14       | 9.48          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1  | 9        | 9.48          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2  | 9        | 9.48          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 12       | 9.48          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 12       | 9.48          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 7        | 9.48          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 7        | 9.48          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 16       | 9.48          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 16       | 9.48          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 2        | 9.48          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 1        | 9.48          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG   | 7        | 9.48          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 13       | 9.48          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 18       | 9.48          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3  | 18       | 9.48          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG   | 11       | 9.47          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG   | 11       | 9.47          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG   | 12       | 9.47          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG   | 12       | 9.47          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2  | 11       | 9.47          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2  | 11       | 9.47          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA   | 5        | 9.47          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1  | 3        | 9.47          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2  | 3        | 9.47          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 9        | 9.47          |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 9        | 9.47          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2  | 12       | 9.47          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3  | 12       | 9.47          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA   | 13       | 9.47          |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H    | 11       | 9.47          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H    | 17       | 9.47          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 15       | 9.47          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 15       | 9.47          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 15       | 9.47          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 16       | 9.47          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 16       | 9.47          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 7        | 9.47          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 7        | 9.47          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 4        | 9.47          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 9        | 9.47          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H   | 13       | 9.47          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 17       | 9.47          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 20       | 9.47          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 13       | 9.47          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 13       | 9.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 10       | 9.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 10       | 9.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 10       | 9.47          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 4        | 9.47          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 4        | 9.47          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 4        | 9.47          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 4        | 9.47          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 15       | 9.47          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 15       | 9.47          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 15       | 9.47          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 11       | 9.47          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 11       | 9.47          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 11       | 9.47          |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3 | 2        | 9.47          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 5        | 9.47          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 7        | 9.47          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 18       | 9.47          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 18       | 9.47          |
| (1,3337) | 1:A:15:ARG:HB3  | 1:A:25:TYR:H   | 13       | 9.47          |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 14       | 9.47          |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H   | 5        | 9.47          |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2 | 1        | 9.47          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 15       | 9.47          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 1        | 9.47          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1 | 1        | 9.47          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2 | 1        | 9.47          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1 | 10       | 9.47          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2 | 10       | 9.47          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 3        | 9.47          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 6        | 9.47          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 17       | 9.47          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 17       | 9.47          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 7        | 9.47          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 8        | 9.47          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 18       | 9.47          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 19       | 9.47          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 20       | 9.47          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 2        | 9.47          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 2        | 9.47          |
| (1,2742) | 1:A:11:TRP:HD1 | 1:A:22:GLN:H   | 17       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 7        | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 7        | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 14       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 14       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 16       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 16       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 18       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 18       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 19       | 9.47          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 19       | 9.47          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG  | 9        | 9.47          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 20       | 9.47          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 11       | 9.47          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 11       | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 1        | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 8        | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 11       | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 13       | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 18       | 9.47          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 19       | 9.47          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 17       | 9.47          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 4        | 9.47          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 4        | 9.47          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 6        | 9.47          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 6        | 9.47          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 3        | 9.47          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 3        | 9.47          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 18       | 9.47          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 12       | 9.47          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 12       | 9.47          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 15       | 9.47          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 16       | 9.47          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 18       | 9.47          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 19       | 9.47          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 19       | 9.47          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 19       | 9.47          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 10       | 9.47          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 10       | 9.47          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3  | 4        | 9.47          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 2        | 9.47          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 17       | 9.47          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 18       | 9.47          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 18       | 9.47          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG2  | 20       | 9.47          |
| (1,1493) | 1:A:5:GLY:HA3  | 1:A:31:LYS:HG3  | 20       | 9.47          |
| (1,1488) | 1:A:5:GLY:HA3  | 1:A:22:GLN:HB3  | 5        | 9.47          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 17       | 9.47          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 19       | 9.47          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 20       | 9.47          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H    | 2        | 9.47          |
| (1,1029) | 1:A:3:PRO:HD3  | 1:A:25:TYR:H    | 3        | 9.47          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2  | 1        | 9.46          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3  | 1        | 9.46          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2  | 15       | 9.46          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2  | 15       | 9.46          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H    | 17       | 9.46          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 5        | 9.46          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 5        | 9.46          |
| (1,690)  | 1:A:2:GLY:HA2  | 1:A:21:SER:H    | 2        | 9.46          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1  | 3        | 9.46          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2  | 3        | 9.46          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1  | 17       | 9.46          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 11       | 9.46          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA   | 2        | 9.46          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H    | 16       | 9.46          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD2  | 2        | 9.46          |
| (1,4614) | 1:A:26:CYS:H   | 1:A:30:PRO:HD3  | 2        | 9.46          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H    | 2        | 9.46          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H    | 8        | 9.46          |
| (1,4496) | 1:A:24:GLY:HA3 | 1:A:32:TYR:H    | 15       | 9.46          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2  | 4        | 9.46          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3  | 4        | 9.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2 | 19       | 9.46          |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3 | 19       | 9.46          |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2 | 16       | 9.46          |
| (1,4438) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HB2 | 16       | 9.46          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 15       | 9.46          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 15       | 9.46          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 15       | 9.46          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 15       | 9.46          |
| (1,4390) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HA  | 7        | 9.46          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB2 | 3        | 9.46          |
| (1,4231) | 1:A:22:GLN:HB3 | 1:A:28:SER:HB3 | 3        | 9.46          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG2 | 12       | 9.46          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG3 | 12       | 9.46          |
| (1,4002) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HG3 | 8        | 9.46          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD1 | 5        | 9.46          |
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD2 | 5        | 9.46          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG2 | 7        | 9.46          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG3 | 7        | 9.46          |
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2 | 5        | 9.46          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H   | 14       | 9.46          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 2        | 9.46          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 2        | 9.46          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 4        | 9.46          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 9        | 9.46          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 2        | 9.46          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 4        | 9.46          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 10       | 9.46          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 7        | 9.46          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 9        | 9.46          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 6        | 9.46          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 6        | 9.46          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 12       | 9.46          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 12       | 9.46          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 14       | 9.46          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 14       | 9.46          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 16       | 9.46          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 4        | 9.46          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 4        | 9.46          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 5        | 9.46          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 5        | 9.46          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 8        | 9.46          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 8        | 9.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 9        | 9.46          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB2  | 14       | 9.46          |
| (1,2528) | 1:A:10:GLY:HA3 | 1:A:14:CYS:HB3  | 14       | 9.46          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 10       | 9.46          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 18       | 9.46          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 19       | 9.46          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 7        | 9.46          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 9        | 9.46          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 16       | 9.46          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 20       | 9.46          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 3        | 9.46          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 3        | 9.46          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3  | 11       | 9.46          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 14       | 9.46          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 3        | 9.46          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 3        | 9.46          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 8        | 9.46          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 20       | 9.46          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 18       | 9.46          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 19       | 9.46          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 2        | 9.46          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 2        | 9.46          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 18       | 9.46          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 18       | 9.46          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 1        | 9.46          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 1        | 9.46          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 4        | 9.46          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 4        | 9.46          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 9        | 9.46          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 9        | 9.46          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 9        | 9.46          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3  | 6        | 9.46          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 17       | 9.46          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H    | 6        | 9.46          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 1        | 9.46          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 2        | 9.46          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 3        | 9.46          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 4        | 9.46          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 5        | 9.46          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2  | 15       | 9.46          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2  | 14       | 9.46          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3  | 14       | 9.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1257) | 1:A:4:ASN:HD21  | 1:A:12:GLY:H   | 16       | 9.46          |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H   | 10       | 9.46          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 7        | 9.45          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 18       | 9.45          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 14       | 9.45          |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H   | 6        | 9.45          |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H   | 14       | 9.45          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 2        | 9.45          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 8        | 9.45          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 19       | 9.45          |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA  | 14       | 9.45          |
| (1,4671) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HA  | 16       | 9.45          |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 6        | 9.45          |
| (1,4657) | 1:A:26:CYS:HB2  | 1:A:31:LYS:H   | 14       | 9.45          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD2 | 10       | 9.45          |
| (1,4614) | 1:A:26:CYS:H    | 1:A:30:PRO:HD3 | 10       | 9.45          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 15       | 9.45          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 15       | 9.45          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG2 | 2        | 9.45          |
| (1,4349) | 1:A:23:TYR:H    | 1:A:30:PRO:HG3 | 2        | 9.45          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 19       | 9.45          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 7        | 9.45          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 8        | 9.45          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 12       | 9.45          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 3        | 9.45          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG2 | 8        | 9.45          |
| (1,4148) | 1:A:22:GLN:HA   | 1:A:30:PRO:HG3 | 8        | 9.45          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 7        | 9.45          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 7        | 9.45          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 7        | 9.45          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 6        | 9.45          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 3        | 9.45          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 3        | 9.45          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 8        | 9.45          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 11       | 9.45          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 13       | 9.45          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 20       | 9.45          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 8        | 9.45          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 9        | 9.45          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 12       | 9.45          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 12       | 9.45          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 12       | 9.45          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 6        | 9.45          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 13       | 9.45          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 13       | 9.45          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 13       | 9.45          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 1        | 9.45          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 5        | 9.45          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 6        | 9.45          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 1        | 9.45          |
| (1,2858) | 1:A:11:TRP:HE1 | 1:A:22:GLN:HA  | 17       | 9.45          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 15       | 9.45          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 15       | 9.45          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG  | 20       | 9.45          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 8        | 9.45          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 2        | 9.45          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 7        | 9.45          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 12       | 9.45          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 16       | 9.45          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 12       | 9.45          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 12       | 9.45          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 12       | 9.45          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 12       | 9.45          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 6        | 9.45          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 6        | 9.45          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 10       | 9.45          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 1        | 9.45          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 11       | 9.45          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 13       | 9.45          |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H   | 11       | 9.45          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 9        | 9.45          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 16       | 9.45          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 12       | 9.45          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 12       | 9.45          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 13       | 9.45          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 10       | 9.45          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 5        | 9.45          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 18       | 9.45          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 12       | 9.45          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 8        | 9.45          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 8        | 9.45          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 5        | 9.45          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 1        | 9.45          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 1        | 9.45          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 3        | 9.45          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 3        | 9.45          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 4        | 9.45          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 4        | 9.45          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 12       | 9.45          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 18       | 9.45          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 14       | 9.45          |
| (1,1143) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HG  | 15       | 9.45          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H   | 1        | 9.45          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 16       | 9.45          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 4        | 9.45          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 1        | 9.44          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 2        | 9.44          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 20       | 9.44          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 1        | 9.44          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 13       | 9.44          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1 | 10       | 9.44          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 4        | 9.44          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 18       | 9.44          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 19       | 9.44          |
| (1,4671) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HA  | 20       | 9.44          |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H   | 5        | 9.44          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 1        | 9.44          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 9        | 9.44          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 13       | 9.44          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 13       | 9.44          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3 | 13       | 9.44          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 14       | 9.44          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 14       | 9.44          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 14       | 9.44          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 14       | 9.44          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 7        | 9.44          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 16       | 9.44          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 18       | 9.44          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 19       | 9.44          |
| (1,4499) | 1:A:24:GLY:HA3 | 1:A:33:CYS:H   | 20       | 9.44          |
| (1,4390) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HA  | 10       | 9.44          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG2 | 4        | 9.44          |
| (1,4349) | 1:A:23:TYR:H   | 1:A:30:PRO:HG3 | 4        | 9.44          |
| (1,4260) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HA  | 10       | 9.44          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG2 | 15       | 9.44          |
| (1,4148) | 1:A:22:GLN:HA  | 1:A:30:PRO:HG3 | 15       | 9.44          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 7        | 9.44          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 7        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 5        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 6        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 6        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 6        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 6        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 6        | 9.44          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 6        | 9.44          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 2        | 9.44          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 2        | 9.44          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 2        | 9.44          |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD1 | 14       | 9.44          |
| (1,3736) | 1:A:18:LEU:HG   | 1:A:23:TYR:HD2 | 14       | 9.44          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 17       | 9.44          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 10       | 9.44          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 10       | 9.44          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 1        | 9.44          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H   | 10       | 9.44          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 9        | 9.44          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 9        | 9.44          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD2 | 13       | 9.44          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD2 | 13       | 9.44          |
| (1,3384) | 1:A:15:ARG:HG2  | 1:A:30:PRO:HD3 | 13       | 9.44          |
| (1,3384) | 1:A:15:ARG:HG3  | 1:A:30:PRO:HD3 | 13       | 9.44          |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 19       | 9.44          |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 19       | 9.44          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 10       | 9.44          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 10       | 9.44          |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3 | 11       | 9.44          |
| (1,3301) | 1:A:15:ARG:HB2  | 1:A:24:GLY:HA2 | 1        | 9.44          |
| (1,3215) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HD3 | 20       | 9.44          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H   | 6        | 9.44          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H   | 10       | 9.44          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1 | 14       | 9.44          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2 | 14       | 9.44          |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG  | 13       | 9.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 10       | 9.44          |
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3 | 17       | 9.44          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 5        | 9.44          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 8        | 9.44          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 7        | 9.44          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 19       | 9.44          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 3        | 9.44          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 3        | 9.44          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD2 | 7        | 9.44          |
| (1,2842) | 1:A:11:TRP:HE1 | 1:A:15:ARG:HD3 | 7        | 9.44          |
| (1,2696) | 1:A:11:TRP:HB3 | 1:A:23:TYR:H   | 17       | 9.44          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 3        | 9.44          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 3        | 9.44          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 14       | 9.44          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 7        | 9.44          |
| (1,2618) | 1:A:11:TRP:HA  | 1:A:18:LEU:HB2 | 9        | 9.44          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 20       | 9.44          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 20       | 9.44          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 20       | 9.44          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 3        | 9.44          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 5        | 9.44          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 12       | 9.44          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 13       | 9.44          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 13       | 9.44          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 13       | 9.44          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 13       | 9.44          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 2        | 9.44          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 4        | 9.44          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 15       | 9.44          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 13       | 9.44          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 7        | 9.44          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 20       | 9.44          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 6        | 9.44          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 6        | 9.44          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 15       | 9.44          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 15       | 9.44          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 18       | 9.44          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 6        | 9.44          |
| (1,1890) | 1:A:6:GLN:HE22 | 1:A:21:SER:HB3 | 5        | 9.44          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 11       | 9.44          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 8        | 9.44          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 12       | 9.44          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1528) | 1:A:6:GLN:H     | 1:A:23:TYR:HE2 | 12       | 9.44          |
| (1,1515) | 1:A:6:GLN:H     | 1:A:15:ARG:HE  | 12       | 9.44          |
| (1,1488) | 1:A:5:GLY:HA3   | 1:A:22:GLN:HB3 | 2        | 9.44          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB2 | 15       | 9.44          |
| (1,1276) | 1:A:4:ASN:HD21  | 1:A:20:CYS:HB3 | 15       | 9.44          |
| (1,1251) | 1:A:4:ASN:HD21  | 1:A:8:GLY:H    | 8        | 9.44          |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 17       | 9.44          |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 20       | 9.44          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 13       | 9.44          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 3        | 9.43          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 14       | 9.43          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 19       | 9.43          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 19       | 9.43          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 19       | 9.43          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 1        | 9.43          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 1        | 9.43          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 3        | 9.43          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 7        | 9.43          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 18       | 9.43          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 1        | 9.43          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 1        | 9.43          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 11       | 9.43          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 11       | 9.43          |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 14       | 9.43          |
| (1,4666) | 1:A:26:CYS:HB2  | 1:A:35:HIS:H   | 17       | 9.43          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 10       | 9.43          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 11       | 9.43          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 9        | 9.43          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 9        | 9.43          |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1 | 7        | 9.43          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 16       | 9.43          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 16       | 9.43          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 3        | 9.43          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 10       | 9.43          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 10       | 9.43          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 10       | 9.43          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 19       | 9.43          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 5        | 9.43          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 5        | 9.43          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 7        | 9.43          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 6        | 9.43          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 5        | 9.43          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 5        | 9.43          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 12       | 9.43          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 12       | 9.43          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 8        | 9.43          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 8        | 9.43          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 8        | 9.43          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 12       | 9.43          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 12       | 9.43          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 12       | 9.43          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 13       | 9.43          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 13       | 9.43          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 13       | 9.43          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA   | 3        | 9.43          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 13       | 9.43          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 17       | 9.43          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 17       | 9.43          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 9        | 9.43          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG2  | 16       | 9.43          |
| (1,3634) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HG3  | 16       | 9.43          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1  | 9        | 9.43          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2  | 9        | 9.43          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 8        | 9.43          |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H    | 7        | 9.43          |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H    | 7        | 9.43          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1  | 12       | 9.43          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2  | 12       | 9.43          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 18       | 9.43          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 18       | 9.43          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 19       | 9.43          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 19       | 9.43          |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H    | 5        | 9.43          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 13       | 9.43          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H    | 15       | 9.43          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1  | 11       | 9.43          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2  | 11       | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1  | 5        | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2  | 5        | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1  | 18       | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2  | 18       | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1  | 20       | 9.43          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2  | 20       | 9.43          |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3  | 2        | 9.43          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2996) | 1:A:12:GLY:H   | 1:A:19:CYS:HB3  | 12       | 9.43          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 8        | 9.43          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 9        | 9.43          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 11       | 9.43          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 18       | 9.43          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2  | 4        | 9.43          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3  | 4        | 9.43          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3  | 17       | 9.43          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 1        | 9.43          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 1        | 9.43          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 6        | 9.43          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 6        | 9.43          |
| (1,2684) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HG   | 7        | 9.43          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 6        | 9.43          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 1        | 9.43          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA   | 16       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD11 | 17       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD12 | 17       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD13 | 17       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD21 | 17       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD22 | 17       | 9.43          |
| (1,2535) | 1:A:10:GLY:HA3 | 1:A:18:LEU:HD23 | 17       | 9.43          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 4        | 9.43          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 6        | 9.43          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 15       | 9.43          |
| (1,2422) | 1:A:9:PRO:HG3  | 1:A:35:HIS:HE1  | 17       | 9.43          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 1        | 9.43          |
| (1,2323) | 1:A:9:PRO:HG2  | 1:A:22:GLN:H    | 17       | 9.43          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 8        | 9.43          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 17       | 9.43          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 15       | 9.43          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 15       | 9.43          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 15       | 9.43          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 13       | 9.43          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 13       | 9.43          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 1        | 9.43          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 13       | 9.43          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 13       | 9.43          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA   | 8        | 9.43          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H    | 20       | 9.43          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 1        | 9.43          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 1        | 9.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1257) | 1:A:4:ASN:HD21  | 1:A:12:GLY:H   | 17       | 9.43          |
| (1,1251) | 1:A:4:ASN:HD21  | 1:A:8:GLY:H    | 17       | 9.43          |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H   | 11       | 9.43          |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H   | 12       | 9.43          |
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 11       | 9.43          |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H   | 18       | 9.43          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H   | 5        | 9.43          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H   | 6        | 9.43          |
| (1,1029) | 1:A:3:PRO:HD3   | 1:A:25:TYR:H   | 10       | 9.43          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2 | 7        | 9.43          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 7        | 9.43          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 18       | 9.42          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 18       | 9.42          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 13       | 9.42          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 12       | 9.42          |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 13       | 9.42          |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 13       | 9.42          |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 11       | 9.42          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 19       | 9.42          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 15       | 9.42          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 15       | 9.42          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 10       | 9.42          |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2 | 18       | 9.42          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 9        | 9.42          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 8        | 9.42          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 2        | 9.42          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 2        | 9.42          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 13       | 9.42          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 13       | 9.42          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 13       | 9.42          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 12       | 9.42          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 12       | 9.42          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 12       | 9.42          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 17       | 9.42          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 17       | 9.42          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 17       | 9.42          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 1        | 9.42          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 11       | 9.42          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 8        | 9.42          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 12       | 9.42          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 6        | 9.42          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 12       | 9.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3544) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HE2 | 12       | 9.42          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H   | 4        | 9.42          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H   | 10       | 9.42          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA  | 5        | 9.42          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA  | 6        | 9.42          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 4        | 9.42          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 11       | 9.42          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1 | 5        | 9.42          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2 | 5        | 9.42          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 16       | 9.42          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2 | 20       | 9.42          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 16       | 9.42          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 16       | 9.42          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 12       | 9.42          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 12       | 9.42          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 15       | 9.42          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 15       | 9.42          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 6        | 9.42          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 6        | 9.42          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 3        | 9.42          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 11       | 9.42          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 7        | 9.42          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 17       | 9.42          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 18       | 9.42          |
| (1,2589) | 1:A:11:TRP:H   | 1:A:19:CYS:HA  | 19       | 9.42          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 11       | 9.42          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 11       | 9.42          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 11       | 9.42          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 11       | 9.42          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 14       | 9.42          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 12       | 9.42          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 12       | 9.42          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 1        | 9.42          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 11       | 9.42          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 12       | 9.42          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 9        | 9.42          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 1        | 9.42          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 1        | 9.42          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 11       | 9.42          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 11       | 9.42          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 10       | 9.42          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 1        | 9.42          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1519) | 1:A:6:GLN:H     | 1:A:19:CYS:HB3  | 3        | 9.42          |
| (1,1519) | 1:A:6:GLN:H     | 1:A:19:CYS:HB3  | 4        | 9.42          |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H    | 16       | 9.42          |
| (1,1497) | 1:A:5:GLY:HA3   | 1:A:33:CYS:H    | 18       | 9.42          |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H    | 13       | 9.42          |
| (1,1322) | 1:A:4:ASN:HD22  | 1:A:8:GLY:HA2   | 20       | 9.42          |
| (1,1322) | 1:A:4:ASN:HD22  | 1:A:8:GLY:HA3   | 20       | 9.42          |
| (1,1198) | 1:A:4:ASN:HB3   | 1:A:14:CYS:H    | 5        | 9.42          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG   | 3        | 9.42          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG   | 6        | 9.42          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG   | 4        | 9.41          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H    | 19       | 9.41          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H    | 2        | 9.41          |
| (1,786)  | 1:A:3:PRO:HB2   | 1:A:15:ARG:HE   | 11       | 9.41          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3  | 20       | 9.41          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2  | 4        | 9.41          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3  | 4        | 9.41          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H    | 8        | 9.41          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H    | 8        | 9.41          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H    | 9        | 9.41          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H    | 9        | 9.41          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 1        | 9.41          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 1        | 9.41          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 1        | 9.41          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 1        | 9.41          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 12       | 9.41          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 12       | 9.41          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA   | 7        | 9.41          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 16       | 9.41          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 18       | 9.41          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 19       | 9.41          |
| (1,4496) | 1:A:24:GLY:HA3  | 1:A:32:TYR:H    | 20       | 9.41          |
| (1,4420) | 1:A:23:TYR:HE1  | 1:A:28:SER:HB3  | 14       | 9.41          |
| (1,4420) | 1:A:23:TYR:HE2  | 1:A:28:SER:HB3  | 14       | 9.41          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 4        | 9.41          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 13       | 9.41          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 13       | 9.41          |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H    | 16       | 9.41          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 19       | 9.41          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 16       | 9.41          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H    | 13       | 9.41          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 2        | 9.41          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 2        | 9.41          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 2        | 9.41          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 2        | 9.41          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 2        | 9.41          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 2        | 9.41          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 3        | 9.41          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 3        | 9.41          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 1        | 9.41          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 16       | 9.41          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 16       | 9.41          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 2        | 9.41          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2  | 10       | 9.41          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H    | 2        | 9.41          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H    | 3        | 9.41          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H    | 6        | 9.41          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2  | 20       | 9.41          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3  | 20       | 9.41          |
| (1,3138) | 1:A:13:GLY:HA2  | 1:A:22:GLN:HG3  | 20       | 9.41          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1  | 11       | 9.41          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2  | 11       | 9.41          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1  | 19       | 9.41          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2  | 19       | 9.41          |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG   | 3        | 9.41          |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG   | 11       | 9.41          |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3  | 8        | 9.41          |
| (1,2976) | 1:A:11:TRP:HH2  | 1:A:25:TYR:HB3  | 13       | 9.41          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 7        | 9.41          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 7        | 9.41          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 3        | 9.41          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA2  | 13       | 9.41          |
| (1,2754) | 1:A:11:TRP:HD1  | 1:A:27:GLY:HA3  | 13       | 9.41          |
| (1,2697) | 1:A:11:TRP:HB3  | 1:A:23:TYR:HA   | 17       | 9.41          |
| (1,2652) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HA   | 10       | 9.41          |
| (1,2589) | 1:A:11:TRP:H    | 1:A:19:CYS:HA   | 12       | 9.41          |
| (1,2466) | 1:A:10:GLY:H    | 1:A:21:SER:H    | 14       | 9.41          |
| (1,2453) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HE1  | 1        | 9.41          |
| (1,2453) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HE2  | 1        | 9.41          |
| (1,2453) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HE1  | 1        | 9.41          |
| (1,2453) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HE2  | 1        | 9.41          |
| (1,2402) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HA   | 17       | 9.41          |
| (1,2305) | 1:A:9:PRO:HG2   | 1:A:14:CYS:H    | 10       | 9.41          |
| (1,2202) | 1:A:9:PRO:HB2   | 1:A:14:CYS:H    | 1        | 9.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 8        | 9.41          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 10       | 9.41          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 10       | 9.41          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 12       | 9.41          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 12       | 9.41          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 15       | 9.41          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 15       | 9.41          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 1        | 9.41          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 20       | 9.41          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 11       | 9.41          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 11       | 9.41          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 11       | 9.41          |
| (1,1497) | 1:A:5:GLY:HA3  | 1:A:33:CYS:H   | 19       | 9.41          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 3        | 9.41          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 3        | 9.41          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 14       | 9.41          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 9        | 9.41          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 7        | 9.41          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 12       | 9.41          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 6        | 9.41          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H   | 3        | 9.41          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 19       | 9.41          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 6        | 9.41          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 6        | 9.4           |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 6        | 9.4           |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 6        | 9.4           |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 16       | 9.4           |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 5        | 9.4           |
| (1,4666) | 1:A:26:CYS:HB2 | 1:A:35:HIS:H   | 20       | 9.4           |
| (1,4605) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HE1 | 19       | 9.4           |
| (1,4605) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HE1 | 19       | 9.4           |
| (1,4577) | 1:A:25:TYR:HD1 | 1:A:34:ALA:H   | 1        | 9.4           |
| (1,4577) | 1:A:25:TYR:HD2 | 1:A:34:ALA:H   | 1        | 9.4           |
| (1,4508) | 1:A:25:TYR:H   | 1:A:28:SER:HB2 | 10       | 9.4           |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD2 | 10       | 9.4           |
| (1,4474) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HD3 | 10       | 9.4           |
| (1,4412) | 1:A:23:TYR:HD1 | 1:A:34:ALA:HA  | 1        | 9.4           |
| (1,4412) | 1:A:23:TYR:HD2 | 1:A:34:ALA:HA  | 1        | 9.4           |
| (1,4240) | 1:A:22:GLN:HB3 | 1:A:33:CYS:HB3 | 7        | 9.4           |
| (1,4189) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA2 | 4        | 9.4           |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE1 | 15       | 9.4           |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE2 | 15       | 9.4           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 7        | 9.4           |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 13       | 9.4           |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 13       | 9.4           |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 13       | 9.4           |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 17       | 9.4           |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 17       | 9.4           |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA   | 9        | 9.4           |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA   | 20       | 9.4           |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 20       | 9.4           |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2  | 5        | 9.4           |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2  | 5        | 9.4           |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3  | 5        | 9.4           |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3  | 5        | 9.4           |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 6        | 9.4           |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 10       | 9.4           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 5        | 9.4           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 6        | 9.4           |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1  | 16       | 9.4           |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2  | 16       | 9.4           |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE21 | 19       | 9.4           |
| (1,3178) | 1:A:14:CYS:H    | 1:A:22:GLN:HE22 | 19       | 9.4           |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 2        | 9.4           |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 5        | 9.4           |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1  | 13       | 9.4           |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2  | 13       | 9.4           |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG   | 4        | 9.4           |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3  | 14       | 9.4           |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3  | 20       | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 8        | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 8        | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 18       | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 18       | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2  | 19       | 9.4           |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3  | 19       | 9.4           |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3  | 4        | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 16       | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 16       | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 18       | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 18       | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB2  | 19       | 9.4           |
| (1,2727) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HB3  | 19       | 9.4           |
| (1,2652) | 1:A:11:TRP:HB2  | 1:A:22:GLN:HA   | 2        | 9.4           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 4        | 9.4           |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 15       | 9.4           |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2  | 8        | 9.4           |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3  | 8        | 9.4           |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2  | 7        | 9.4           |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3  | 7        | 9.4           |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 10       | 9.4           |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 2        | 9.4           |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 2        | 9.4           |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 6        | 9.4           |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 6        | 9.4           |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H    | 2        | 9.4           |
| (1,2202) | 1:A:9:PRO:HB2  | 1:A:14:CYS:H    | 13       | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 8        | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 8        | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 8        | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1  | 13       | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2  | 13       | 9.4           |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3  | 13       | 9.4           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 9        | 9.4           |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 9        | 9.4           |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 5        | 9.4           |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 5        | 9.4           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 5        | 9.4           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 5        | 9.4           |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG   | 12       | 9.4           |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 8        | 9.4           |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 19       | 9.4           |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA   | 13       | 9.4           |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA   | 18       | 9.4           |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA   | 19       | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 2        | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 2        | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 5        | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 5        | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 10       | 9.4           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 10       | 9.4           |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 8        | 9.4           |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 16       | 9.4           |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H    | 8        | 9.4           |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H    | 2        | 9.4           |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H    | 1        | 9.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1125) | 1:A:4:ASN:HB2   | 1:A:10:GLY:H   | 13       | 9.4           |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H   | 7        | 9.4           |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA  | 13       | 9.4           |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 8        | 9.39          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 8        | 9.39          |
| (1,906)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:HA2 | 20       | 9.39          |
| (1,906)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:HA2 | 20       | 9.39          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 6        | 9.39          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 7        | 9.39          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 3        | 9.39          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 17       | 9.39          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 11       | 9.39          |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H   | 5        | 9.39          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 6        | 9.39          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 15       | 9.39          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 15       | 9.39          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 1        | 9.39          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 1        | 9.39          |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 15       | 9.39          |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 15       | 9.39          |
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 3        | 9.39          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 18       | 9.39          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 7        | 9.39          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 17       | 9.39          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 18       | 9.39          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 19       | 9.39          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 20       | 9.39          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 8        | 9.39          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 8        | 9.39          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 6        | 9.39          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 7        | 9.39          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 7        | 9.39          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 7        | 9.39          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 11       | 9.39          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 20       | 9.39          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 20       | 9.39          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 16       | 9.39          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 16       | 9.39          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 3        | 9.39          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 2        | 9.39          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 11       | 9.39          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 11       | 9.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 11       | 9.39          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 4        | 9.39          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 4        | 9.39          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 4        | 9.39          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 18       | 9.39          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 19       | 9.39          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 17       | 9.39          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 8        | 9.39          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 6        | 9.39          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 1        | 9.39          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 1        | 9.39          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 15       | 9.39          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 3        | 9.39          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 4        | 9.39          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 6        | 9.39          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 5        | 9.39          |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H   | 17       | 9.39          |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H   | 17       | 9.39          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1 | 20       | 9.39          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2 | 20       | 9.39          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H   | 1        | 9.39          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1 | 15       | 9.39          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2 | 15       | 9.39          |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3 | 7        | 9.39          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2 | 2        | 9.39          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3 | 2        | 9.39          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2 | 2        | 9.39          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3 | 2        | 9.39          |
| (1,2976) | 1:A:11:TRP:HH2  | 1:A:25:TYR:HB3 | 17       | 9.39          |
| (1,2976) | 1:A:11:TRP:HH2  | 1:A:25:TYR:HB3 | 19       | 9.39          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2 | 5        | 9.39          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3 | 5        | 9.39          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB2 | 20       | 9.39          |
| (1,2902) | 1:A:11:TRP:HZ3  | 1:A:14:CYS:HB3 | 20       | 9.39          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 2        | 9.39          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 5        | 9.39          |
| (1,2900) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:HA3 | 6        | 9.39          |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB2 | 9        | 9.39          |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB3 | 9        | 9.39          |
| (1,2466) | 1:A:10:GLY:H    | 1:A:21:SER:H   | 2        | 9.39          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2 | 5        | 9.39          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3 | 5        | 9.39          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 5        | 9.39          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 5        | 9.39          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 2        | 9.39          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 10       | 9.39          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 1        | 9.39          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 2        | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 2        | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 2        | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 6        | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 6        | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 10       | 9.39          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 10       | 9.39          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 9        | 9.39          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA   | 13       | 9.39          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 18       | 9.39          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 11       | 9.39          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 15       | 9.39          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 18       | 9.39          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 18       | 9.39          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 1        | 9.39          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 12       | 9.39          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 16       | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 3        | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 3        | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 6        | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 6        | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 14       | 9.39          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 14       | 9.39          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 9        | 9.39          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 17       | 9.39          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 17       | 9.39          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 9        | 9.39          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 9        | 9.39          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2  | 15       | 9.39          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3  | 15       | 9.39          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 9        | 9.39          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 9        | 9.39          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 13       | 9.39          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 3        | 9.39          |
| (1,1160) | 1:A:4:ASN:HB2  | 1:A:28:SER:H   | 20       | 9.39          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H   | 4        | 9.39          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 3        | 9.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 7        | 9.38          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 7        | 9.38          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 18       | 9.38          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 17       | 9.38          |
| (1,690)  | 1:A:2:GLY:HA2   | 1:A:21:SER:H   | 10       | 9.38          |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H   | 3        | 9.38          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 11       | 9.38          |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 9        | 9.38          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 6        | 9.38          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 15       | 9.38          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 1        | 9.38          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 1        | 9.38          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 5        | 9.38          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 3        | 9.38          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 15       | 9.38          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 15       | 9.38          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 2        | 9.38          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 2        | 9.38          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 19       | 9.38          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 2        | 9.38          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 2        | 9.38          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 9        | 9.38          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 3        | 9.38          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 6        | 9.38          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 10       | 9.38          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 10       | 9.38          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 11       | 9.38          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 3        | 9.38          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 3        | 9.38          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 3        | 9.38          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 3        | 9.38          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 3        | 9.38          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 3        | 9.38          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 5        | 9.38          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 5        | 9.38          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 5        | 9.38          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 2        | 9.38          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 6        | 9.38          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 13       | 9.38          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 1        | 9.38          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 8        | 9.38          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 8        | 9.38          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H    | 2        | 9.38          |
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H    | 10       | 9.38          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 9        | 9.38          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 9        | 9.38          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 12       | 9.38          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 12       | 9.38          |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H    | 12       | 9.38          |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H    | 12       | 9.38          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H    | 1        | 9.38          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H    | 5        | 9.38          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1  | 20       | 9.38          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2  | 20       | 9.38          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H    | 4        | 9.38          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 18       | 9.38          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3  | 19       | 9.38          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 1        | 9.38          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 1        | 9.38          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD1  | 7        | 9.38          |
| (1,3180) | 1:A:14:CYS:H   | 1:A:23:TYR:HD2  | 7        | 9.38          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1  | 9        | 9.38          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2  | 9        | 9.38          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG   | 15       | 9.38          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 4        | 9.38          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 4        | 9.38          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 17       | 9.38          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 17       | 9.38          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 18       | 9.38          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3  | 20       | 9.38          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2  | 2        | 9.38          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3  | 2        | 9.38          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2  | 10       | 9.38          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3  | 10       | 9.38          |
| (1,2900) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:HA3  | 10       | 9.38          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H    | 1        | 9.38          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H    | 15       | 9.38          |
| (1,2697) | 1:A:11:TRP:HB3 | 1:A:23:TYR:HA   | 14       | 9.38          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 13       | 9.38          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 13       | 9.38          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 13       | 9.38          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA   | 1        | 9.38          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2  | 16       | 9.38          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3  | 16       | 9.38          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2  | 18       | 9.38          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3  | 18       | 9.38          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2  | 19       | 9.38          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3  | 19       | 9.38          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H    | 4        | 9.38          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 14       | 9.38          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 14       | 9.38          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 14       | 9.38          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 14       | 9.38          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2  | 4        | 9.38          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3  | 4        | 9.38          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 6        | 9.38          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1  | 10       | 9.38          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2  | 10       | 9.38          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 7        | 9.38          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 5        | 9.38          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 12       | 9.38          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 6        | 9.38          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 6        | 9.38          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 10       | 9.38          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 1        | 9.38          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 1        | 9.38          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 8        | 9.38          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 8        | 9.38          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2   | 5        | 9.38          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3   | 5        | 9.38          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 15       | 9.38          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA   | 16       | 9.38          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2  | 9        | 9.38          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 6        | 9.38          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 6        | 9.38          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 6        | 9.38          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 4        | 9.38          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 4        | 9.38          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2  | 16       | 9.38          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3  | 16       | 9.38          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA2   | 9        | 9.38          |
| (1,1322) | 1:A:4:ASN:HD22 | 1:A:8:GLY:HA3   | 9        | 9.38          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H    | 15       | 9.38          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA   | 1        | 9.38          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA   | 14       | 9.38          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 14       | 9.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 14       | 9.38          |
| (1,972)  | 1:A:3:PRO:HD2   | 1:A:23:TYR:HB3 | 4        | 9.37          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 13       | 9.37          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 13       | 9.37          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 8        | 9.37          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 8        | 9.37          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 12       | 9.37          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 12       | 9.37          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 4        | 9.37          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 11       | 9.37          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 11       | 9.37          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 11       | 9.37          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 11       | 9.37          |
| (1,4542) | 1:A:25:TYR:HB2  | 1:A:35:HIS:HE1 | 9        | 9.37          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 18       | 9.37          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 18       | 9.37          |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1 | 3        | 9.37          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 6        | 9.37          |
| (1,4471) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB2 | 15       | 9.37          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 6        | 9.37          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 6        | 9.37          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 17       | 9.37          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 4        | 9.37          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 4        | 9.37          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 4        | 9.37          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 10       | 9.37          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 20       | 9.37          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 2        | 9.37          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 10       | 9.37          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 1        | 9.37          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 1        | 9.37          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 6        | 9.37          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 6        | 9.37          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 2        | 9.37          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 2        | 9.37          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 4        | 9.37          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 19       | 9.37          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 9        | 9.37          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 11       | 9.37          |
| (1,3525) | 1:A:16:GLY:HA3  | 1:A:21:SER:H   | 5        | 9.37          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 17       | 9.37          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 17       | 9.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 14       | 9.37          |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H   | 15       | 9.37          |
| (1,3215) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HD3 | 16       | 9.37          |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 18       | 9.37          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 14       | 9.37          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 12       | 9.37          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 2        | 9.37          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 10       | 9.37          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 18       | 9.37          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 19       | 9.37          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 12       | 9.37          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 11       | 9.37          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 7        | 9.37          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 7        | 9.37          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 12       | 9.37          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 12       | 9.37          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 4        | 9.37          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 8        | 9.37          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 12       | 9.37          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 11       | 9.37          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 20       | 9.37          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 20       | 9.37          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 5        | 9.37          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2 | 3        | 9.37          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3 | 3        | 9.37          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H   | 3        | 9.37          |
| (1,2366) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ3 | 13       | 9.37          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1 | 9        | 9.37          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2 | 9        | 9.37          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 16       | 9.37          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 4        | 9.37          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 7        | 9.37          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 14       | 9.37          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 14       | 9.37          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 14       | 9.37          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 14       | 9.37          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 14       | 9.37          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 8        | 9.37          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 11       | 9.37          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 11       | 9.37          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 11       | 9.37          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 8        | 9.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 10       | 9.37          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 10       | 9.37          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 13       | 9.37          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H   | 8        | 9.37          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 2        | 9.37          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 17       | 9.36          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 17       | 9.36          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 1        | 9.36          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 1        | 9.36          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 15       | 9.36          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 15       | 9.36          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 8        | 9.36          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 8        | 9.36          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 12       | 9.36          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 12       | 9.36          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 19       | 9.36          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 19       | 9.36          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 20       | 9.36          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 20       | 9.36          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 15       | 9.36          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 16       | 9.36          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 1        | 9.36          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 13       | 9.36          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 14       | 9.36          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 13       | 9.36          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 13       | 9.36          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 13       | 9.36          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 13       | 9.36          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 13       | 9.36          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 13       | 9.36          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 11       | 9.36          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 11       | 9.36          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 18       | 9.36          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 18       | 9.36          |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2 | 8        | 9.36          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 3        | 9.36          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 6        | 9.36          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 12       | 9.36          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 12       | 9.36          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 12       | 9.36          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1 | 12       | 9.36          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2 | 12       | 9.36          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3  | 12       | 9.36          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H    | 15       | 9.36          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H    | 15       | 9.36          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2  | 12       | 9.36          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3  | 12       | 9.36          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2  | 12       | 9.36          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3  | 12       | 9.36          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 11       | 9.36          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 11       | 9.36          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2  | 3        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2  | 3        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3  | 3        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3  | 3        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2  | 6        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2  | 6        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3  | 6        | 9.36          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3  | 6        | 9.36          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 9        | 9.36          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 14       | 9.36          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 20       | 9.36          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2  | 3        | 9.36          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3  | 20       | 9.36          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 6        | 9.36          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 13       | 9.36          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 13       | 9.36          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2  | 12       | 9.36          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3  | 12       | 9.36          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 7        | 9.36          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2  | 7        | 9.36          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 12       | 9.36          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 13       | 9.36          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 13       | 9.36          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 4        | 9.36          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 4        | 9.36          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 4        | 9.36          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 10       | 9.36          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 10       | 9.36          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 10       | 9.36          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 6        | 9.36          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 6        | 9.36          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 6        | 9.36          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 5        | 9.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB3 | 5        | 9.36          |
| (1,3665) | 1:A:18:LEU:H   | 1:A:35:HIS:HE1 | 13       | 9.36          |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2 | 19       | 9.36          |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3 | 19       | 9.36          |
| (1,3618) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HE1 | 15       | 9.36          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG2 | 10       | 9.36          |
| (1,3613) | 1:A:17:GLY:HA2 | 1:A:31:LYS:HG3 | 10       | 9.36          |
| (1,3586) | 1:A:17:GLY:H   | 1:A:35:HIS:H   | 19       | 9.36          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE1 | 3        | 9.36          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE2 | 3        | 9.36          |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 13       | 9.36          |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 13       | 9.36          |
| (1,3314) | 1:A:15:ARG:HB2 | 1:A:32:TYR:H   | 14       | 9.36          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1 | 9        | 9.36          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2 | 9        | 9.36          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 3        | 9.36          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 6        | 9.36          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 10       | 9.36          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 8        | 9.36          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 1        | 9.36          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 1        | 9.36          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 6        | 9.36          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 4        | 9.36          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 4        | 9.36          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 16       | 9.36          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 9        | 9.36          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 9        | 9.36          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 13       | 9.36          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 13       | 9.36          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 5        | 9.36          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 18       | 9.36          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 18       | 9.36          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 13       | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 3        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 3        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 4        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 4        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 5        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 5        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 6        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 6        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 8        | 9.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 8        | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 10       | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 10       | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 14       | 9.36          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 14       | 9.36          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 3        | 9.36          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 6        | 9.36          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB2 | 10       | 9.36          |
| (1,2403) | 1:A:9:PRO:HG3  | 1:A:26:CYS:HB3 | 10       | 9.36          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 18       | 9.36          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 19       | 9.36          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 6        | 9.36          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 12       | 9.36          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 12       | 9.36          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 13       | 9.36          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 17       | 9.36          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 7        | 9.36          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 7        | 9.36          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 4        | 9.36          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 4        | 9.36          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 18       | 9.36          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 18       | 9.36          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 1        | 9.36          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB2 | 20       | 9.36          |
| (1,1276) | 1:A:4:ASN:HD21 | 1:A:20:CYS:HB3 | 20       | 9.36          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 11       | 9.36          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 11       | 9.36          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 16       | 9.36          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 14       | 9.36          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 12       | 9.36          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 14       | 9.35          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 14       | 9.35          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 20       | 9.35          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 20       | 9.35          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 14       | 9.35          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 14       | 9.35          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 18       | 9.35          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 18       | 9.35          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 4        | 9.35          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 4        | 9.35          |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 8        | 9.35          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 5        | 9.35          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2 | 5        | 9.35          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 7        | 9.35          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 7        | 9.35          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 14       | 9.35          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 14       | 9.35          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 3        | 9.35          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 3        | 9.35          |
| (1,625)  | 1:A:2:GLY:H     | 1:A:18:LEU:H   | 17       | 9.35          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 17       | 9.35          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 5        | 9.35          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 4        | 9.35          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 4        | 9.35          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 11       | 9.35          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 11       | 9.35          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 12       | 9.35          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 12       | 9.35          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 12       | 9.35          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 12       | 9.35          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 3        | 9.35          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 5        | 9.35          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 6        | 9.35          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 12       | 9.35          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 12       | 9.35          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 20       | 9.35          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 4        | 9.35          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 17       | 9.35          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 17       | 9.35          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 7        | 9.35          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 9        | 9.35          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 11       | 9.35          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 12       | 9.35          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 5        | 9.35          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 18       | 9.35          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 3        | 9.35          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 3        | 9.35          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 3        | 9.35          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 12       | 9.35          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 12       | 9.35          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 12       | 9.35          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 18       | 9.35          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 5        | 9.35          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 15       | 9.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3633) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB2 | 12       | 9.35          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2 | 12       | 9.35          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3 | 12       | 9.35          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB2 | 13       | 9.35          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB3 | 13       | 9.35          |
| (1,3525) | 1:A:16:GLY:HA3 | 1:A:21:SER:H   | 17       | 9.35          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB2 | 7        | 9.35          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB3 | 7        | 9.35          |
| (1,3427) | 1:A:15:ARG:HE  | 1:A:20:CYS:H   | 11       | 9.35          |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 8        | 9.35          |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 8        | 9.35          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1 | 8        | 9.35          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2 | 8        | 9.35          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H   | 2        | 9.35          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H   | 3        | 9.35          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H   | 4        | 9.35          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 6        | 9.35          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 2        | 9.35          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 11       | 9.35          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 15       | 9.35          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 8        | 9.35          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 8        | 9.35          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 12       | 9.35          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 16       | 9.35          |
| (1,3007) | 1:A:12:GLY:H   | 1:A:23:TYR:H   | 17       | 9.35          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 15       | 9.35          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 10       | 9.35          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 10       | 9.35          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 14       | 9.35          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 14       | 9.35          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 9        | 9.35          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 20       | 9.35          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 12       | 9.35          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 12       | 9.35          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 2        | 9.35          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 2        | 9.35          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 3        | 9.35          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 3        | 9.35          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 6        | 9.35          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 15       | 9.35          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 16       | 9.35          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 18       | 9.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 19       | 9.35          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 3        | 9.35          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 3        | 9.35          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 5        | 9.35          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 5        | 9.35          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 3        | 9.35          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 5        | 9.35          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2 | 8        | 9.35          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 1        | 9.35          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 20       | 9.35          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 20       | 9.35          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 20       | 9.35          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 20       | 9.35          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 20       | 9.35          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 20       | 9.35          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 7        | 9.35          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 7        | 9.35          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2 | 16       | 9.35          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3 | 16       | 9.35          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 6        | 9.35          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 20       | 9.35          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 6        | 9.35          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 9        | 9.35          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 16       | 9.35          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 9        | 9.35          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 1        | 9.35          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 9        | 9.35          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 11       | 9.35          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 12       | 9.35          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 15       | 9.35          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 18       | 9.35          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 12       | 9.35          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 1        | 9.35          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 18       | 9.35          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 14       | 9.35          |
| (1,1134) | 1:A:4:ASN:HB2  | 1:A:13:GLY:H   | 20       | 9.35          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 11       | 9.35          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 20       | 9.35          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 20       | 9.35          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 7        | 9.34          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 7        | 9.34          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 19       | 9.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 19       | 9.34          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 5        | 9.34          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 1        | 9.34          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 6        | 9.34          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2 | 10       | 9.34          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1 | 14       | 9.34          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2 | 14       | 9.34          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 6        | 9.34          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 6        | 9.34          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 5        | 9.34          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 6        | 9.34          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 16       | 9.34          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 5        | 9.34          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 5        | 9.34          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 18       | 9.34          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 18       | 9.34          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 7        | 9.34          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 7        | 9.34          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB2 | 15       | 9.34          |
| (1,4231) | 1:A:22:GLN:HB3  | 1:A:28:SER:HB3 | 15       | 9.34          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 15       | 9.34          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 15       | 9.34          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 17       | 9.34          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 17       | 9.34          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 3        | 9.34          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 20       | 9.34          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 5        | 9.34          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 5        | 9.34          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 18       | 9.34          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 18       | 9.34          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 19       | 9.34          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 19       | 9.34          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 11       | 9.34          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 4        | 9.34          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 6        | 9.34          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 6        | 9.34          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 12       | 9.34          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 12       | 9.34          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 13       | 9.34          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 13       | 9.34          |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD2 | 19       | 9.34          |
| (1,2842) | 1:A:11:TRP:HE1  | 1:A:15:ARG:HD3 | 19       | 9.34          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 14       | 9.34          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 14       | 9.34          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 18       | 9.34          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H    | 19       | 9.34          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 1        | 9.34          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 1        | 9.34          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 14       | 9.34          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 14       | 9.34          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 14       | 9.34          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 14       | 9.34          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 20       | 9.34          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 19       | 9.34          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 19       | 9.34          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 4        | 9.34          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 14       | 9.34          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 6        | 9.34          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 6        | 9.34          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1  | 14       | 9.34          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2  | 14       | 9.34          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 2        | 9.34          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 2        | 9.34          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 2        | 9.34          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 4        | 9.34          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 4        | 9.34          |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2  | 20       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 9        | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 9        | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 18       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 18       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 19       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 19       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB2  | 20       | 9.34          |
| (1,1973) | 1:A:7:CYS:H    | 1:A:33:CYS:HB3  | 20       | 9.34          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 5        | 9.34          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 4        | 9.34          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1  | 7        | 9.34          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2  | 7        | 9.34          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA   | 15       | 9.34          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA   | 20       | 9.34          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 2        | 9.34          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2  | 16       | 9.34          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 13       | 9.34          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB2  | 19       | 9.34          |
| (1,1344) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HB3  | 19       | 9.34          |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H    | 15       | 9.34          |
| (1,1195) | 1:A:4:ASN:HB3   | 1:A:12:GLY:H    | 4        | 9.34          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG   | 2        | 9.34          |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA   | 5        | 9.34          |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA   | 15       | 9.34          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H    | 10       | 9.33          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H    | 13       | 9.33          |
| (1,689)  | 1:A:2:GLY:HA2   | 1:A:20:CYS:HB2  | 5        | 9.33          |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H    | 14       | 9.33          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1  | 11       | 9.33          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1  | 11       | 9.33          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 16       | 9.33          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA   | 9        | 9.33          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2  | 2        | 9.33          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2  | 6        | 9.33          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H    | 15       | 9.33          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H    | 15       | 9.33          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 5        | 9.33          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H    | 1        | 9.33          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H    | 20       | 9.33          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 5        | 9.33          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 5        | 9.33          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 9        | 9.33          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 8        | 9.33          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2  | 14       | 9.33          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 18       | 9.33          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 18       | 9.33          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 17       | 9.33          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 17       | 9.33          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 17       | 9.33          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H    | 7        | 9.33          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H    | 15       | 9.33          |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 18       | 9.33          |
| (1,3584) | 1:A:17:GLY:H    | 1:A:34:ALA:HA   | 19       | 9.33          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 8        | 9.33          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 8        | 9.33          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 11       | 9.33          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 11       | 9.33          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1  | 13       | 9.33          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2  | 13       | 9.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3 | 13       | 9.33          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2 | 14       | 9.33          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3 | 14       | 9.33          |
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H   | 3        | 9.33          |
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H   | 10       | 9.33          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 5        | 9.33          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 13       | 9.33          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 9        | 9.33          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1 | 2        | 9.33          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2 | 2        | 9.33          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1 | 4        | 9.33          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2 | 4        | 9.33          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 5        | 9.33          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 14       | 9.33          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 11       | 9.33          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 13       | 9.33          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 13       | 9.33          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 20       | 9.33          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 20       | 9.33          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 5        | 9.33          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 5        | 9.33          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 6        | 9.33          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 5        | 9.33          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 6        | 9.33          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 6        | 9.33          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 10       | 9.33          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 10       | 9.33          |
| (1,2553) | 1:A:10:GLY:HA3 | 1:A:26:CYS:H   | 17       | 9.33          |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE  | 18       | 9.33          |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE  | 18       | 9.33          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 20       | 9.33          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 15       | 9.33          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 4        | 9.33          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 4        | 9.33          |
| (1,1753) | 1:A:6:GLN:HG3  | 1:A:18:LEU:HA  | 9        | 9.33          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 10       | 9.33          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 14       | 9.33          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 19       | 9.33          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 19       | 9.33          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 13       | 9.33          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 5        | 9.33          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 1        | 9.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 1        | 9.33          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 11       | 9.33          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 11       | 9.33          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 19       | 9.33          |
| (1,1422) | 1:A:5:GLY:H    | 1:A:19:CYS:HB2 | 20       | 9.33          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 7        | 9.33          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 7        | 9.33          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 20       | 9.33          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 20       | 9.33          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 17       | 9.33          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 8        | 9.33          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 16       | 9.33          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H   | 9        | 9.33          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 1        | 9.33          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 10       | 9.33          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 6        | 9.32          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 16       | 9.32          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 16       | 9.32          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 20       | 9.32          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 20       | 9.32          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 12       | 9.32          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 12       | 9.32          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 16       | 9.32          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 16       | 9.32          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 18       | 9.32          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 18       | 9.32          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 12       | 9.32          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 15       | 9.32          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 4        | 9.32          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 4        | 9.32          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 6        | 9.32          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 6        | 9.32          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD1 | 2        | 9.32          |
| (1,638)  | 1:A:2:GLY:H    | 1:A:23:TYR:HD2 | 2        | 9.32          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 1        | 9.32          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 1        | 9.32          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 3        | 9.32          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 3        | 9.32          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 5        | 9.32          |
| (1,4548) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HA  | 16       | 9.32          |
| (1,4548) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HA  | 20       | 9.32          |
| (1,4486) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HD2 | 16       | 9.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 20       | 9.32          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 20       | 9.32          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 19       | 9.32          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 19       | 9.32          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 19       | 9.32          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 19       | 9.32          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 2        | 9.32          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 17       | 9.32          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 13       | 9.32          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 3        | 9.32          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 3        | 9.32          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 15       | 9.32          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 15       | 9.32          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 15       | 9.32          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 1        | 9.32          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 1        | 9.32          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 1        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 9        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 9        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 9        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 9        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 9        | 9.32          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 9        | 9.32          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 9        | 9.32          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 9        | 9.32          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 16       | 9.32          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 16       | 9.32          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 16       | 9.32          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 2        | 9.32          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 10       | 9.32          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 13       | 9.32          |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 1        | 9.32          |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 1        | 9.32          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 10       | 9.32          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 10       | 9.32          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H   | 16       | 9.32          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 15       | 9.32          |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H   | 5        | 9.32          |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3 | 1        | 9.32          |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2 | 10       | 9.32          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 8        | 9.32          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 15       | 9.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 3        | 9.32          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 3        | 9.32          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 1        | 9.32          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 7        | 9.32          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 7        | 9.32          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2 | 9        | 9.32          |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3 | 9        | 9.32          |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA  | 3        | 9.32          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 7        | 9.32          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 16       | 9.32          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 15       | 9.32          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 15       | 9.32          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 8        | 9.32          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 9        | 9.32          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 4        | 9.32          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 4        | 9.32          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 9        | 9.32          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 15       | 9.32          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 8        | 9.32          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 4        | 9.32          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 4        | 9.32          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 6        | 9.32          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 3        | 9.32          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 3        | 9.32          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 3        | 9.32          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 10       | 9.32          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 3        | 9.32          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 2        | 9.32          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 5        | 9.32          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 10       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 12       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 12       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 13       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 13       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 15       | 9.32          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 15       | 9.32          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 11       | 9.32          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB2 | 8        | 9.32          |
| (1,1344) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HB3 | 8        | 9.32          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 20       | 9.32          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 7        | 9.32          |
| (1,1209) | 1:A:4:ASN:HB3  | 1:A:20:CYS:H   | 19       | 9.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H   | 14       | 9.32          |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H   | 9        | 9.32          |
| (1,1134) | 1:A:4:ASN:HB2   | 1:A:13:GLY:H   | 15       | 9.32          |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H   | 17       | 9.32          |
| (1,966)  | 1:A:3:PRO:HD2   | 1:A:21:SER:HG  | 2        | 9.31          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 13       | 9.31          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 13       | 9.31          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 12       | 9.31          |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1 | 5        | 9.31          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 9        | 9.31          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 16       | 9.31          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 13       | 9.31          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 15       | 9.31          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 9        | 9.31          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 18       | 9.31          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 19       | 9.31          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 4        | 9.31          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 11       | 9.31          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 17       | 9.31          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 11       | 9.31          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 11       | 9.31          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 11       | 9.31          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 11       | 9.31          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 9        | 9.31          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 18       | 9.31          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 3        | 9.31          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 4        | 9.31          |
| (1,4306) | 1:A:22:GLN:HE22 | 1:A:26:CYS:H   | 15       | 9.31          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 5        | 9.31          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 5        | 9.31          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 18       | 9.31          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 1        | 9.31          |
| (1,4189) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA2 | 8        | 9.31          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 13       | 9.31          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 15       | 9.31          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 15       | 9.31          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 9        | 9.31          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 3        | 9.31          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 3        | 9.31          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 3        | 9.31          |
| (1,3701) | 1:A:18:LEU:HB2  | 1:A:34:ALA:HA  | 7        | 9.31          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 1        | 9.31          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3682) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HD2  | 1        | 9.31          |
| (1,3681) | 1:A:18:LEU:HB2 | 1:A:23:TYR:HB2  | 7        | 9.31          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H    | 17       | 9.31          |
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H    | 7        | 9.31          |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H    | 7        | 9.31          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 1        | 9.31          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 1        | 9.31          |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA   | 14       | 9.31          |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA   | 14       | 9.31          |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB2  | 11       | 9.31          |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB2  | 11       | 9.31          |
| (1,3367) | 1:A:15:ARG:HG2 | 1:A:23:TYR:HB3  | 11       | 9.31          |
| (1,3367) | 1:A:15:ARG:HG3 | 1:A:23:TYR:HB3  | 11       | 9.31          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H    | 13       | 9.31          |
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H    | 2        | 9.31          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 19       | 9.31          |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 19       | 9.31          |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE21 | 11       | 9.31          |
| (1,3178) | 1:A:14:CYS:H   | 1:A:22:GLN:HE22 | 11       | 9.31          |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H    | 14       | 9.31          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H    | 20       | 9.31          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1  | 7        | 9.31          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2  | 7        | 9.31          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1  | 15       | 9.31          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2  | 15       | 9.31          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3  | 15       | 9.31          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 2        | 9.31          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H    | 1        | 9.31          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 5        | 9.31          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 5        | 9.31          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2  | 12       | 9.31          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3  | 12       | 9.31          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 3        | 9.31          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 3        | 9.31          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 3        | 9.31          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 3        | 9.31          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 3        | 9.31          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 3        | 9.31          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 6        | 9.31          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 6        | 9.31          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 8        | 9.31          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 13       | 9.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2072) | 1:A:8:GLY:H    | 1:A:32:TYR:HA  | 17       | 9.31          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 5        | 9.31          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 9        | 9.31          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 16       | 9.31          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 16       | 9.31          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 3        | 9.31          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 3        | 9.31          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 2        | 9.31          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 6        | 9.31          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 17       | 9.31          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 13       | 9.31          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 13       | 9.31          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 18       | 9.31          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 8        | 9.31          |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 8        | 9.31          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 11       | 9.31          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2 | 20       | 9.31          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3 | 20       | 9.31          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB2 | 15       | 9.31          |
| (1,1264) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HB3 | 15       | 9.31          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 3        | 9.31          |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 18       | 9.31          |
| (1,1125) | 1:A:4:ASN:HB2  | 1:A:10:GLY:H   | 15       | 9.31          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 12       | 9.31          |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 10       | 9.3           |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 7        | 9.3           |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 7        | 9.3           |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 11       | 9.3           |
| (1,846)  | 1:A:3:PRO:HB3  | 1:A:12:GLY:H   | 14       | 9.3           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 14       | 9.3           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 14       | 9.3           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 14       | 9.3           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 14       | 9.3           |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 18       | 9.3           |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 17       | 9.3           |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 8        | 9.3           |
| (1,4631) | 1:A:26:CYS:H   | 1:A:35:HIS:HE1 | 1        | 9.3           |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 18       | 9.3           |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 11       | 9.3           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 8        | 9.3           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 8        | 9.3           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 8        | 9.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 8        | 9.3           |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 8        | 9.3           |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 8        | 9.3           |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 19       | 9.3           |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 11       | 9.3           |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 12       | 9.3           |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 14       | 9.3           |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 1        | 9.3           |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 16       | 9.3           |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 18       | 9.3           |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 19       | 9.3           |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 5        | 9.3           |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 10       | 9.3           |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 6        | 9.3           |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 19       | 9.3           |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 5        | 9.3           |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 11       | 9.3           |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 1        | 9.3           |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 17       | 9.3           |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 20       | 9.3           |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 20       | 9.3           |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 20       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 16       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 16       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 16       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3 | 20       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3 | 20       | 9.3           |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3 | 20       | 9.3           |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 1        | 9.3           |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 1        | 9.3           |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 1        | 9.3           |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 4        | 9.3           |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 5        | 9.3           |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 16       | 9.3           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 6        | 9.3           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 6        | 9.3           |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2 | 9        | 9.3           |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3 | 9        | 9.3           |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 17       | 9.3           |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 17       | 9.3           |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 19       | 9.3           |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 19       | 9.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H    | 17       | 9.3           |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 17       | 9.3           |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 15       | 9.3           |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 15       | 9.3           |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 12       | 9.3           |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 12       | 9.3           |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 5        | 9.3           |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 16       | 9.3           |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 18       | 9.3           |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 19       | 9.3           |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 20       | 9.3           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 6        | 9.3           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 6        | 9.3           |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB2  | 8        | 9.3           |
| (1,2727) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HB3  | 8        | 9.3           |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 16       | 9.3           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 6        | 9.3           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 6        | 9.3           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 6        | 9.3           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 6        | 9.3           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 10       | 9.3           |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 10       | 9.3           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 10       | 9.3           |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 10       | 9.3           |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 12       | 9.3           |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 12       | 9.3           |
| (1,2387) | 1:A:9:PRO:HG3  | 1:A:22:GLN:H    | 17       | 9.3           |
| (1,2173) | 1:A:9:PRO:HA   | 1:A:26:CYS:HA   | 17       | 9.3           |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 1        | 9.3           |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H    | 11       | 9.3           |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 12       | 9.3           |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2  | 14       | 9.3           |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 13       | 9.3           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 3        | 9.3           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 3        | 9.3           |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 7        | 9.3           |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 18       | 9.3           |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 2        | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 7        | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 7        | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2   | 9        | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3   | 9        | 9.3           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 16       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 16       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 18       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 18       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 19       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 19       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG2  | 20       | 9.3           |
| (1,1455) | 1:A:5:GLY:HA2  | 1:A:9:PRO:HG3  | 20       | 9.3           |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 7        | 9.3           |
| (1,1198) | 1:A:4:ASN:HB3  | 1:A:14:CYS:H   | 19       | 9.3           |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 3        | 9.3           |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H   | 3        | 9.3           |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 11       | 9.3           |
| (1,966)  | 1:A:3:PRO:HD2  | 1:A:21:SER:HG  | 5        | 9.29          |
| (1,920)  | 1:A:3:PRO:HG2  | 1:A:21:SER:HG  | 18       | 9.29          |
| (1,920)  | 1:A:3:PRO:HG3  | 1:A:21:SER:HG  | 18       | 9.29          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 9        | 9.29          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 9        | 9.29          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 3        | 9.29          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 3        | 9.29          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H   | 5        | 9.29          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H   | 10       | 9.29          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H   | 20       | 9.29          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 1        | 9.29          |
| (1,689)  | 1:A:2:GLY:HA2  | 1:A:20:CYS:HB2 | 9        | 9.29          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 14       | 9.29          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 13       | 9.29          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 13       | 9.29          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 17       | 9.29          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 13       | 9.29          |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2 | 18       | 9.29          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 2        | 9.29          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 12       | 9.29          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 1        | 9.29          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 17       | 9.29          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 17       | 9.29          |
| (1,4548) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HA  | 1        | 9.29          |
| (1,4508) | 1:A:25:TYR:H   | 1:A:28:SER:HB2 | 20       | 9.29          |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2 | 5        | 9.29          |
| (1,4475) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HE2 | 11       | 9.29          |
| (1,4475) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HE3 | 11       | 9.29          |
| (1,4438) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HB2 | 3        | 9.29          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2  | 3        | 9.29          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2  | 15       | 9.29          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2  | 15       | 9.29          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3  | 15       | 9.29          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3  | 15       | 9.29          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H    | 19       | 9.29          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H    | 19       | 9.29          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 14       | 9.29          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 19       | 9.29          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H    | 5        | 9.29          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 18       | 9.29          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 4        | 9.29          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 6        | 9.29          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1  | 7        | 9.29          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2  | 7        | 9.29          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3  | 7        | 9.29          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 16       | 9.29          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 16       | 9.29          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 6        | 9.29          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 18       | 9.29          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 18       | 9.29          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 18       | 9.29          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 19       | 9.29          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 19       | 9.29          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 19       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 11       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 11       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 11       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 11       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 11       | 9.29          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 11       | 9.29          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 2        | 9.29          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 2        | 9.29          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 2        | 9.29          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 17       | 9.29          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 17       | 9.29          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 17       | 9.29          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE21 | 15       | 9.29          |
| (1,3708) | 1:A:18:LEU:HB3  | 1:A:22:GLN:HE22 | 15       | 9.29          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 2        | 9.29          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 5        | 9.29          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 16       | 9.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG2 | 20       | 9.29          |
| (1,3634) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HG3 | 20       | 9.29          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE1 | 3        | 9.29          |
| (1,3519) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HE2 | 3        | 9.29          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H   | 12       | 9.29          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 7        | 9.29          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 7        | 9.29          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1 | 11       | 9.29          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2 | 11       | 9.29          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 1        | 9.29          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 12       | 9.29          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA2 | 17       | 9.29          |
| (1,3018) | 1:A:12:GLY:H   | 1:A:27:GLY:HA3 | 17       | 9.29          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 9        | 9.29          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 13       | 9.29          |
| (1,2976) | 1:A:11:TRP:HH2 | 1:A:25:TYR:HB3 | 11       | 9.29          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 14       | 9.29          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 14       | 9.29          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 9        | 9.29          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 1        | 9.29          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 1        | 9.29          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 11       | 9.29          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 11       | 9.29          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 7        | 9.29          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 18       | 9.29          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 19       | 9.29          |
| (1,2336) | 1:A:9:PRO:HG2  | 1:A:26:CYS:H   | 17       | 9.29          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1 | 5        | 9.29          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2 | 5        | 9.29          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 13       | 9.29          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 5        | 9.29          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 5        | 9.29          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 1        | 9.29          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 18       | 9.29          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 19       | 9.29          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 20       | 9.29          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 4        | 9.29          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 4        | 9.29          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 5        | 9.29          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 3        | 9.29          |
| (1,1600) | 1:A:6:GLN:HB2  | 1:A:22:GLN:HA  | 4        | 9.29          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 16       | 9.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1528) | 1:A:6:GLN:H     | 1:A:23:TYR:HE2 | 16       | 9.29          |
| (1,1524) | 1:A:6:GLN:H     | 1:A:22:GLN:HA  | 19       | 9.29          |
| (1,1422) | 1:A:5:GLY:H     | 1:A:19:CYS:HB2 | 7        | 9.29          |
| (1,1364) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HA  | 12       | 9.29          |
| (1,1152) | 1:A:4:ASN:HB2   | 1:A:23:TYR:H   | 17       | 9.29          |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H   | 4        | 9.29          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 15       | 9.29          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 7        | 9.28          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 7        | 9.28          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 8        | 9.28          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 8        | 9.28          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 15       | 9.28          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 15       | 9.28          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 13       | 9.28          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 13       | 9.28          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 2        | 9.28          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 5        | 9.28          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 5        | 9.28          |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H   | 6        | 9.28          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 14       | 9.28          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 14       | 9.28          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 4        | 9.28          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 7        | 9.28          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 10       | 9.28          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 14       | 9.28          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 14       | 9.28          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 19       | 9.28          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 19       | 9.28          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 8        | 9.28          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1 | 5        | 9.28          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 3        | 9.28          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 6        | 9.28          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 5        | 9.28          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 15       | 9.28          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 13       | 9.28          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 13       | 9.28          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 13       | 9.28          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 10       | 9.28          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 13       | 9.28          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 6        | 9.28          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 6        | 9.28          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 6        | 9.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 6        | 9.28          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 6        | 9.28          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 6        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 5        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 5        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 5        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 8        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 8        | 9.28          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 8        | 9.28          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD2 | 15       | 9.28          |
| (1,3636) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HD3 | 15       | 9.28          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 1        | 9.28          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 9        | 9.28          |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG  | 9        | 9.28          |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG  | 9        | 9.28          |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 1        | 9.28          |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 1        | 9.28          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 6        | 9.28          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 6        | 9.28          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 6        | 9.28          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 6        | 9.28          |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD2 | 13       | 9.28          |
| (1,3349) | 1:A:15:ARG:HB3  | 1:A:30:PRO:HD3 | 13       | 9.28          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1 | 9        | 9.28          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2 | 9        | 9.28          |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2 | 7        | 9.28          |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2 | 8        | 9.28          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG2 | 19       | 9.28          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG3 | 19       | 9.28          |
| (1,2623) | 1:A:11:TRP:HA   | 1:A:25:TYR:HB3 | 10       | 9.28          |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB2 | 13       | 9.28          |
| (1,2474) | 1:A:10:GLY:H    | 1:A:25:TYR:HB3 | 13       | 9.28          |
| (1,2473) | 1:A:10:GLY:H    | 1:A:25:TYR:H   | 16       | 9.28          |
| (1,2266) | 1:A:9:PRO:HB3   | 1:A:25:TYR:H   | 17       | 9.28          |
| (1,2158) | 1:A:9:PRO:HA    | 1:A:21:SER:H   | 2        | 9.28          |
| (1,2158) | 1:A:9:PRO:HA    | 1:A:21:SER:H   | 10       | 9.28          |
| (1,2103) | 1:A:8:GLY:HA2   | 1:A:35:HIS:HE1 | 17       | 9.28          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 7        | 9.28          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 18       | 9.28          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 19       | 9.28          |
| (1,2019) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HD2 | 19       | 9.28          |
| (1,2019) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HD2 | 19       | 9.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1873) | 1:A:6:GLN:HE22  | 1:A:13:GLY:H   | 14       | 9.28          |
| (1,1815) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HB2 | 6        | 9.28          |
| (1,1815) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HB3 | 6        | 9.28          |
| (1,1519) | 1:A:6:GLN:H     | 1:A:19:CYS:HB3 | 13       | 9.28          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 16       | 9.28          |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA2 | 1        | 9.28          |
| (1,1328) | 1:A:4:ASN:HD22  | 1:A:10:GLY:HA3 | 1        | 9.28          |
| (1,1200) | 1:A:4:ASN:HB3   | 1:A:15:ARG:HE  | 1        | 9.28          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG  | 5        | 9.28          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 3        | 9.27          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 3        | 9.27          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 4        | 9.27          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 4        | 9.27          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 19       | 9.27          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 19       | 9.27          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 8        | 9.27          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 8        | 9.27          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 16       | 9.27          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 16       | 9.27          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 9        | 9.27          |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE1 | 17       | 9.27          |
| (1,666)  | 1:A:2:GLY:H     | 1:A:32:TYR:HE2 | 17       | 9.27          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD1 | 10       | 9.27          |
| (1,638)  | 1:A:2:GLY:H     | 1:A:23:TYR:HD2 | 10       | 9.27          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 17       | 9.27          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 6        | 9.27          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 18       | 9.27          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 18       | 9.27          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 20       | 9.27          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 20       | 9.27          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 11       | 9.27          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 17       | 9.27          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 13       | 9.27          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 5        | 9.27          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 7        | 9.27          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 19       | 9.27          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 19       | 9.27          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 1        | 9.27          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 13       | 9.27          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 13       | 9.27          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 13       | 9.27          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 16       | 9.27          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 8        | 9.27          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 8        | 9.27          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 12       | 9.27          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 12       | 9.27          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 8        | 9.27          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 11       | 9.27          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 2        | 9.27          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 12       | 9.27          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 7        | 9.27          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 15       | 9.27          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 20       | 9.27          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 20       | 9.27          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 9        | 9.27          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 17       | 9.27          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 20       | 9.27          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 2        | 9.27          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 15       | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 1        | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 1        | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 1        | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 15       | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 15       | 9.27          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 15       | 9.27          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 16       | 9.27          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 8        | 9.27          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 18       | 9.27          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 19       | 9.27          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 20       | 9.27          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H   | 11       | 9.27          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 12       | 9.27          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 3        | 9.27          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 4        | 9.27          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 2        | 9.27          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 4        | 9.27          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 4        | 9.27          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 4        | 9.27          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1 | 8        | 9.27          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2 | 8        | 9.27          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 6        | 9.27          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 6        | 9.27          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 9        | 9.27          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 11       | 9.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG2  | 11       | 9.27          |
| (1,2904) | 1:A:11:TRP:HZ3 | 1:A:15:ARG:HG3  | 11       | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 7        | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 7        | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 18       | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 18       | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 19       | 9.27          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 19       | 9.27          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2  | 14       | 9.27          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3  | 14       | 9.27          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 2        | 9.27          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H    | 20       | 9.27          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 5        | 9.27          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 5        | 9.27          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 5        | 9.27          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 5        | 9.27          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 12       | 9.27          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 15       | 9.27          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE21 | 11       | 9.27          |
| (1,2215) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HE22 | 11       | 9.27          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 17       | 9.27          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 17       | 9.27          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG   | 7        | 9.27          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H    | 19       | 9.27          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H    | 8        | 9.27          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 16       | 9.27          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 6        | 9.27          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2  | 4        | 9.27          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3  | 4        | 9.27          |
| (1,972)  | 1:A:3:PRO:HD2  | 1:A:23:TYR:HB3  | 6        | 9.26          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2  | 11       | 9.26          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2  | 11       | 9.26          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H    | 12       | 9.26          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H    | 12       | 9.26          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2  | 4        | 9.26          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2  | 4        | 9.26          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H    | 15       | 9.26          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H    | 19       | 9.26          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1  | 9        | 9.26          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2  | 9        | 9.26          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2  | 6        | 9.26          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2  | 6        | 9.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 6        | 9.26          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 6        | 9.26          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2 | 7        | 9.26          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2 | 7        | 9.26          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 7        | 9.26          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 7        | 9.26          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2 | 18       | 9.26          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2 | 18       | 9.26          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 18       | 9.26          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 18       | 9.26          |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1 | 14       | 9.26          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2 | 9        | 9.26          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 11       | 9.26          |
| (1,4664) | 1:A:26:CYS:HB2  | 1:A:34:ALA:H   | 16       | 9.26          |
| (1,4630) | 1:A:26:CYS:H    | 1:A:35:HIS:HB2 | 19       | 9.26          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 13       | 9.26          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 15       | 9.26          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 17       | 9.26          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 17       | 9.26          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 8        | 9.26          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 12       | 9.26          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 7        | 9.26          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 4        | 9.26          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 9        | 9.26          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 1        | 9.26          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 1        | 9.26          |
| (1,4232) | 1:A:22:GLN:HB3  | 1:A:29:GLY:H   | 16       | 9.26          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1 | 18       | 9.26          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 16       | 9.26          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 3        | 9.26          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 17       | 9.26          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 17       | 9.26          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 17       | 9.26          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 1        | 9.26          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 6        | 9.26          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 4        | 9.26          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 7        | 9.26          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 1        | 9.26          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 1        | 9.26          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 18       | 9.26          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 19       | 9.26          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 11       | 9.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 8        | 9.26          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 1        | 9.26          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 3        | 9.26          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 11       | 9.26          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 15       | 9.26          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 16       | 9.26          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 16       | 9.26          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 20       | 9.26          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 20       | 9.26          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 3        | 9.26          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 3        | 9.26          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 12       | 9.26          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2 | 10       | 9.26          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3 | 10       | 9.26          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 12       | 9.26          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 12       | 9.26          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 8        | 9.26          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 9        | 9.26          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 15       | 9.26          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 2        | 9.26          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 2        | 9.26          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 2        | 9.26          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 2        | 9.26          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 12       | 9.26          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 12       | 9.26          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 14       | 9.26          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 14       | 9.26          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 16       | 9.26          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 16       | 9.26          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 1        | 9.26          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 11       | 9.26          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 4        | 9.26          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H   | 5        | 9.26          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 2        | 9.26          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 2        | 9.26          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 15       | 9.26          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 15       | 9.26          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 20       | 9.26          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 18       | 9.26          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 16       | 9.26          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 4        | 9.26          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 4        | 9.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1354) | 1:A:4:ASN:HD22  | 1:A:21:SER:HG  | 9        | 9.26          |
| (1,1206) | 1:A:4:ASN:HB3   | 1:A:19:CYS:H   | 17       | 9.26          |
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H   | 16       | 9.26          |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H   | 5        | 9.26          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2 | 1        | 9.26          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 1        | 9.26          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 13       | 9.25          |
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG  | 14       | 9.25          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 18       | 9.25          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 19       | 9.25          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 7        | 9.25          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 15       | 9.25          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 5        | 9.25          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 5        | 9.25          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 16       | 9.25          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 16       | 9.25          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 16       | 9.25          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 10       | 9.25          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 6        | 9.25          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 6        | 9.25          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 11       | 9.25          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 16       | 9.25          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 16       | 9.25          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 16       | 9.25          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 2        | 9.25          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 2        | 9.25          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 2        | 9.25          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 10       | 9.25          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 16       | 9.25          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 16       | 9.25          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2 | 12       | 9.25          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1 | 2        | 9.25          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 2        | 9.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 4        | 9.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 4        | 9.25          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 16       | 9.25          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 16       | 9.25          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 7        | 9.25          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 7        | 9.25          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 9        | 9.25          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 17       | 9.25          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 9        | 9.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA  | 12       | 9.25          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1 | 16       | 9.25          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2 | 16       | 9.25          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 7        | 9.25          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 16       | 9.25          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 9        | 9.25          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 3        | 9.25          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 3        | 9.25          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H   | 14       | 9.25          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 4        | 9.25          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 6        | 9.25          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2 | 14       | 9.25          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB2 | 17       | 9.25          |
| (1,2902) | 1:A:11:TRP:HZ3 | 1:A:14:CYS:HB3 | 17       | 9.25          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 8        | 9.25          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 8        | 9.25          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 11       | 9.25          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 11       | 9.25          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB2 | 17       | 9.25          |
| (1,2737) | 1:A:11:TRP:HD1 | 1:A:19:CYS:HB3 | 17       | 9.25          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 8        | 9.25          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 12       | 9.25          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 12       | 9.25          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 12       | 9.25          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 12       | 9.25          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 3        | 9.25          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 4        | 9.25          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 3        | 9.25          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 3        | 9.25          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 7        | 9.25          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 14       | 9.25          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 10       | 9.25          |
| (1,1288) | 1:A:4:ASN:HD21 | 1:A:27:GLY:H   | 20       | 9.25          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 13       | 9.25          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 13       | 9.25          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 17       | 9.25          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 17       | 9.25          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 4        | 9.25          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 10       | 9.25          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 8        | 9.25          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 9        | 9.25          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 3        | 9.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1012) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HB3 | 3        | 9.25          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2 | 11       | 9.25          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 11       | 9.25          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 6        | 9.24          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 6        | 9.24          |
| (1,846)  | 1:A:3:PRO:HB3   | 1:A:12:GLY:H   | 9        | 9.24          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 7        | 9.24          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 14       | 9.24          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 5        | 9.24          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 15       | 9.24          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 15       | 9.24          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 2        | 9.24          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 2        | 9.24          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 17       | 9.24          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 17       | 9.24          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 20       | 9.24          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 20       | 9.24          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 17       | 9.24          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 17       | 9.24          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 5        | 9.24          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 3        | 9.24          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 20       | 9.24          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 8        | 9.24          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 8        | 9.24          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 8        | 9.24          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 16       | 9.24          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 7        | 9.24          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 9        | 9.24          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 2        | 9.24          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 2        | 9.24          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 11       | 9.24          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 10       | 9.24          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 4        | 9.24          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 11       | 9.24          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 3        | 9.24          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 3        | 9.24          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 3        | 9.24          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 12       | 9.24          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 9        | 9.24          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 9        | 9.24          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 9        | 9.24          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 9        | 9.24          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 10       | 9.24          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 10       | 9.24          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 10       | 9.24          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 10       | 9.24          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 10       | 9.24          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 10       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 11       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 11       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 11       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 13       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 13       | 9.24          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 13       | 9.24          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 8        | 9.24          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 9        | 9.24          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 13       | 9.24          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 15       | 9.24          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 8        | 9.24          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 2        | 9.24          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 2        | 9.24          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 5        | 9.24          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 5        | 9.24          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA   | 14       | 9.24          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 15       | 9.24          |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H    | 19       | 9.24          |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H    | 19       | 9.24          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3  | 20       | 9.24          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3  | 20       | 9.24          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA   | 16       | 9.24          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA   | 16       | 9.24          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2  | 6        | 9.24          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2  | 6        | 9.24          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3  | 6        | 9.24          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3  | 6        | 9.24          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 14       | 9.24          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG   | 10       | 9.24          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD1  | 7        | 9.24          |
| (1,3135) | 1:A:13:GLY:H    | 1:A:32:TYR:HD2  | 7        | 9.24          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3  | 9        | 9.24          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1  | 4        | 9.24          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2  | 4        | 9.24          |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2  | 13       | 9.24          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H    | 20       | 9.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 9        | 9.24          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 9        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 2        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 2        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 4        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 4        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 7        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 7        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 9        | 9.24          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 9        | 9.24          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 7        | 9.24          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 6        | 9.24          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 6        | 9.24          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H    | 13       | 9.24          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1  | 4        | 9.24          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2  | 4        | 9.24          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1  | 4        | 9.24          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2  | 4        | 9.24          |
| (1,2392) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HB3  | 17       | 9.24          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H    | 9        | 9.24          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 12       | 9.24          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 12       | 9.24          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 3        | 9.24          |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 6        | 9.24          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1  | 4        | 9.24          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2  | 4        | 9.24          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 14       | 9.24          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 14       | 9.24          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 20       | 9.24          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 17       | 9.24          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 17       | 9.24          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 17       | 9.24          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 17       | 9.24          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 10       | 9.24          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 10       | 9.24          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 10       | 9.24          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 12       | 9.24          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H    | 4        | 9.24          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 18       | 9.24          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 19       | 9.24          |
| (1,1084) | 1:A:4:ASN:H    | 1:A:23:TYR:H    | 10       | 9.24          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 12       | 9.24          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 12       | 9.24          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 10       | 9.23          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 10       | 9.23          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 11       | 9.23          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 11       | 9.23          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 14       | 9.23          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 14       | 9.23          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 2        | 9.23          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 2        | 9.23          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 13       | 9.23          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 18       | 9.23          |
| (1,810)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:HA  | 8        | 9.23          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 7        | 9.23          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 7        | 9.23          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 11       | 9.23          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 11       | 9.23          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 10       | 9.23          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 10       | 9.23          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 11       | 9.23          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 11       | 9.23          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 11       | 9.23          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 4        | 9.23          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 4        | 9.23          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 5        | 9.23          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 5        | 9.23          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 15       | 9.23          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 15       | 9.23          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 4        | 9.23          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 4        | 9.23          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 4        | 9.23          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 4        | 9.23          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 5        | 9.23          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 14       | 9.23          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 5        | 9.23          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 1        | 9.23          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 13       | 9.23          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 17       | 9.23          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 8        | 9.23          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 14       | 9.23          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 14       | 9.23          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 4        | 9.23          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 14       | 9.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3  | 14       | 9.23          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 7        | 9.23          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 8        | 9.23          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 15       | 9.23          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 12       | 9.23          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 12       | 9.23          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 10       | 9.23          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 18       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 11       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 11       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 11       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 11       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 11       | 9.23          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 11       | 9.23          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 3        | 9.23          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 3        | 9.23          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 3        | 9.23          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 3        | 9.23          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 3        | 9.23          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 3        | 9.23          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 6        | 9.23          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 6        | 9.23          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 6        | 9.23          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 19       | 9.23          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 19       | 9.23          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 19       | 9.23          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 13       | 9.23          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 7        | 9.23          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 18       | 9.23          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 19       | 9.23          |
| (1,3409) | 1:A:15:ARG:HD2  | 1:A:29:GLY:HA3  | 1        | 9.23          |
| (1,3409) | 1:A:15:ARG:HD3  | 1:A:29:GLY:HA3  | 1        | 9.23          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2  | 17       | 9.23          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2  | 17       | 9.23          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3  | 17       | 9.23          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3  | 17       | 9.23          |
| (1,3330) | 1:A:15:ARG:HB3  | 1:A:21:SER:HG   | 15       | 9.23          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H    | 12       | 9.23          |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H    | 1        | 9.23          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2  | 16       | 9.23          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3  | 16       | 9.23          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3  | 8        | 9.23          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 2        | 9.23          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 20       | 9.23          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 16       | 9.23          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 12       | 9.23          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 12       | 9.23          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 1        | 9.23          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 8        | 9.23          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 8        | 9.23          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 3        | 9.23          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 3        | 9.23          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 11       | 9.23          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 14       | 9.23          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 14       | 9.23          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 14       | 9.23          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 7        | 9.23          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 18       | 9.23          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 20       | 9.23          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 5        | 9.23          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 5        | 9.23          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 4        | 9.23          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 15       | 9.23          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 9        | 9.23          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 9        | 9.23          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 8        | 9.23          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 9        | 9.23          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 9        | 9.23          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 12       | 9.23          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 7        | 9.23          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 8        | 9.23          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 12       | 9.23          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 16       | 9.23          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 2        | 9.23          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 2        | 9.23          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 10       | 9.23          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 10       | 9.23          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 14       | 9.23          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 6        | 9.23          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 6        | 9.23          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 6        | 9.23          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 6        | 9.23          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 20       | 9.23          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 20       | 9.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1206) | 1:A:4:ASN:HB3   | 1:A:19:CYS:H    | 4        | 9.23          |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG   | 9        | 9.23          |
| (1,1084) | 1:A:4:ASN:H     | 1:A:23:TYR:H    | 2        | 9.23          |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2  | 1        | 9.22          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2  | 1        | 9.22          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG   | 5        | 9.22          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG   | 5        | 9.22          |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2  | 20       | 9.22          |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2  | 20       | 9.22          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H    | 16       | 9.22          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2  | 1        | 9.22          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3  | 16       | 9.22          |
| (1,636)  | 1:A:2:GLY:H     | 1:A:23:TYR:H    | 2        | 9.22          |
| (1,621)  | 1:A:2:GLY:H     | 1:A:15:ARG:HE   | 14       | 9.22          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2  | 19       | 9.22          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2  | 19       | 9.22          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3  | 19       | 9.22          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3  | 19       | 9.22          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H    | 10       | 9.22          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 14       | 9.22          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 14       | 9.22          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H    | 9        | 9.22          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H    | 9        | 9.22          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H    | 14       | 9.22          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H    | 14       | 9.22          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 3        | 9.22          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 19       | 9.22          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 11       | 9.22          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 7        | 9.22          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 7        | 9.22          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 10       | 9.22          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 10       | 9.22          |
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 10       | 9.22          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 9        | 9.22          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 9        | 9.22          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 9        | 9.22          |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3  | 8        | 9.22          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H    | 1        | 9.22          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 9.22          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 16       | 9.22          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1  | 3        | 9.22          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2  | 3        | 9.22          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3 | 3        | 9.22          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1 | 7        | 9.22          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2 | 7        | 9.22          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3 | 7        | 9.22          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H   | 20       | 9.22          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H   | 20       | 9.22          |
| (1,3391) | 1:A:15:ARG:HG2 | 1:A:35:HIS:H   | 19       | 9.22          |
| (1,3391) | 1:A:15:ARG:HG3 | 1:A:35:HIS:H   | 19       | 9.22          |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 1        | 9.22          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H   | 4        | 9.22          |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA  | 8        | 9.22          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 3        | 9.22          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 13       | 9.22          |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG  | 18       | 9.22          |
| (1,3065) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HB3 | 17       | 9.22          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 18       | 9.22          |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H   | 19       | 9.22          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 19       | 9.22          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 13       | 9.22          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 1        | 9.22          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 1        | 9.22          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 20       | 9.22          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 6        | 9.22          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 6        | 9.22          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 4        | 9.22          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 4        | 9.22          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 1        | 9.22          |
| (1,2386) | 1:A:9:PRO:HG3  | 1:A:21:SER:HG  | 17       | 9.22          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 10       | 9.22          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 8        | 9.22          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 19       | 9.22          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 16       | 9.22          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 16       | 9.22          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 10       | 9.22          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 3        | 9.22          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 3        | 9.22          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 7        | 9.22          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 7        | 9.22          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 2        | 9.22          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 12       | 9.22          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 9        | 9.22          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 10       | 9.22          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB3 | 10       | 9.22          |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H   | 7        | 9.22          |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H   | 11       | 9.22          |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA  | 20       | 9.22          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB2 | 12       | 9.22          |
| (1,1008) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HB3 | 12       | 9.22          |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2 | 12       | 9.21          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2 | 12       | 9.21          |
| (1,920)  | 1:A:3:PRO:HG2   | 1:A:21:SER:HG  | 2        | 9.21          |
| (1,920)  | 1:A:3:PRO:HG3   | 1:A:21:SER:HG  | 2        | 9.21          |
| (1,905)  | 1:A:3:PRO:HG2   | 1:A:13:GLY:H   | 4        | 9.21          |
| (1,905)  | 1:A:3:PRO:HG3   | 1:A:13:GLY:H   | 4        | 9.21          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 6        | 9.21          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 6        | 9.21          |
| (1,838)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:H   | 8        | 9.21          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 10       | 9.21          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 15       | 9.21          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 15       | 9.21          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 15       | 9.21          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 15       | 9.21          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 15       | 9.21          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 15       | 9.21          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 15       | 9.21          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 17       | 9.21          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 17       | 9.21          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 18       | 9.21          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1 | 20       | 9.21          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 8        | 9.21          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 17       | 9.21          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 19       | 9.21          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 10       | 9.21          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 10       | 9.21          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 9        | 9.21          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 15       | 9.21          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 9        | 9.21          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 9        | 9.21          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 3        | 9.21          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 4        | 9.21          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 4        | 9.21          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 8        | 9.21          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 15       | 9.21          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 15       | 9.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 15       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 18       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 18       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 18       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 19       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 19       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 19       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 20       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 20       | 9.21          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 20       | 9.21          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 12       | 9.21          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 2        | 9.21          |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 2        | 9.21          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 1        | 9.21          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 5        | 9.21          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 5        | 9.21          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 15       | 9.21          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H   | 9        | 9.21          |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H   | 12       | 9.21          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 15       | 9.21          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 7        | 9.21          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 15       | 9.21          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 15       | 9.21          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD1 | 14       | 9.21          |
| (1,3180) | 1:A:14:CYS:H    | 1:A:23:TYR:HD2 | 14       | 9.21          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 3        | 9.21          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 4        | 9.21          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 12       | 9.21          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE1 | 14       | 9.21          |
| (1,3115) | 1:A:13:GLY:H    | 1:A:25:TYR:HE2 | 14       | 9.21          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 8        | 9.21          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 15       | 9.21          |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG  | 7        | 9.21          |
| (1,3100) | 1:A:13:GLY:H    | 1:A:21:SER:HG  | 19       | 9.21          |
| (1,3065) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HB3 | 13       | 9.21          |
| (1,3012) | 1:A:12:GLY:H    | 1:A:25:TYR:HB2 | 12       | 9.21          |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H   | 7        | 9.21          |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H   | 18       | 9.21          |
| (1,2670) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HD1 | 11       | 9.21          |
| (1,2670) | 1:A:11:TRP:HB2  | 1:A:32:TYR:HD2 | 11       | 9.21          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2 | 17       | 9.21          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3 | 17       | 9.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H    | 4        | 9.21          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 4        | 9.21          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 13       | 9.21          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 5        | 9.21          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 8        | 9.21          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 8        | 9.21          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 15       | 9.21          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 15       | 9.21          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 9        | 9.21          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG   | 11       | 9.21          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 17       | 9.21          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 17       | 9.21          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA   | 11       | 9.21          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H    | 20       | 9.21          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2   | 14       | 9.21          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3   | 14       | 9.21          |
| (1,1865) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HA    | 17       | 9.21          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 14       | 9.21          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2  | 17       | 9.21          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3  | 17       | 9.21          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H    | 3        | 9.21          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1  | 8        | 9.21          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2  | 8        | 9.21          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA   | 18       | 9.21          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2  | 3        | 9.2           |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2  | 3        | 9.2           |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H    | 11       | 9.2           |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 2        | 9.2           |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H    | 13       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1  | 14       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2  | 14       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3  | 14       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1  | 14       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2  | 14       | 9.2           |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3  | 14       | 9.2           |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H    | 13       | 9.2           |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H    | 13       | 9.2           |
| (1,4548) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HA   | 2        | 9.2           |
| (1,4508) | 1:A:25:TYR:H   | 1:A:28:SER:HB2  | 14       | 9.2           |
| (1,4421) | 1:A:23:TYR:HE1 | 1:A:29:GLY:H    | 20       | 9.2           |
| (1,4421) | 1:A:23:TYR:HE2 | 1:A:29:GLY:H    | 20       | 9.2           |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1  | 7        | 9.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 7        | 9.2           |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 7        | 9.2           |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 2        | 9.2           |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 2        | 9.2           |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 2        | 9.2           |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 2        | 9.2           |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 17       | 9.2           |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 8        | 9.2           |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 8        | 9.2           |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 4        | 9.2           |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 1        | 9.2           |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 17       | 9.2           |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 17       | 9.2           |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 17       | 9.2           |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 17       | 9.2           |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 17       | 9.2           |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 17       | 9.2           |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 1        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 1        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 1        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 5        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 5        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 5        | 9.2           |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 11       | 9.2           |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 11       | 9.2           |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 11       | 9.2           |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 3        | 9.2           |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 11       | 9.2           |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 19       | 9.2           |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 19       | 9.2           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 11       | 9.2           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 11       | 9.2           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 11       | 9.2           |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 11       | 9.2           |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 16       | 9.2           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 17       | 9.2           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 17       | 9.2           |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 10       | 9.2           |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 10       | 9.2           |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 19       | 9.2           |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 19       | 9.2           |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 15       | 9.2           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 8        | 9.2           |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 18       | 9.2           |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 19       | 9.2           |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 20       | 9.2           |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 8        | 9.2           |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H    | 17       | 9.2           |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2  | 20       | 9.2           |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3  | 20       | 9.2           |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1  | 15       | 9.2           |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2  | 15       | 9.2           |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3  | 14       | 9.2           |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3  | 20       | 9.2           |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG   | 16       | 9.2           |
| (1,2995) | 1:A:12:GLY:H   | 1:A:19:CYS:H    | 7        | 9.2           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 2        | 9.2           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 4        | 9.2           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 6        | 9.2           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 10       | 9.2           |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H    | 13       | 9.2           |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 15       | 9.2           |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1  | 15       | 9.2           |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2  | 15       | 9.2           |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 18       | 9.2           |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 19       | 9.2           |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H    | 10       | 9.2           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 3        | 9.2           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 3        | 9.2           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 3        | 9.2           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 3        | 9.2           |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H    | 2        | 9.2           |
| (1,2322) | 1:A:9:PRO:HG2  | 1:A:21:SER:HG   | 17       | 9.2           |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H    | 16       | 9.2           |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1  | 14       | 9.2           |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2  | 14       | 9.2           |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 2        | 9.2           |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 3        | 9.2           |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 6        | 9.2           |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 6        | 9.2           |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 6        | 9.2           |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 3        | 9.2           |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 1        | 9.2           |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 3        | 9.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB3 | 3        | 9.2           |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB2 | 17       | 9.2           |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB3 | 17       | 9.2           |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD2 | 2        | 9.2           |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD3 | 2        | 9.2           |
| (1,1364) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HA  | 15       | 9.2           |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1 | 12       | 9.2           |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 12       | 9.2           |
| (1,1032) | 1:A:3:PRO:HD3   | 1:A:26:CYS:HA  | 19       | 9.2           |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2 | 15       | 9.19          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2 | 15       | 9.19          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 9        | 9.19          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 9        | 9.19          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 13       | 9.19          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 13       | 9.19          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 19       | 9.19          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 19       | 9.19          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 11       | 9.19          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 6        | 9.19          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 6        | 9.19          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 3        | 9.19          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 19       | 9.19          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 19       | 9.19          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 20       | 9.19          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 20       | 9.19          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 9        | 9.19          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 11       | 9.19          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 18       | 9.19          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 19       | 9.19          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 20       | 9.19          |
| (1,4508) | 1:A:25:TYR:H    | 1:A:28:SER:HB2 | 12       | 9.19          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 7        | 9.19          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 18       | 9.19          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 18       | 9.19          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 18       | 9.19          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 18       | 9.19          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 3        | 9.19          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 3        | 9.19          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 8        | 9.19          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 1        | 9.19          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 10       | 9.19          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 12       | 9.19          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 12       | 9.19          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 15       | 9.19          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 15       | 9.19          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 18       | 9.19          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 8        | 9.19          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 8        | 9.19          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 14       | 9.19          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 10       | 9.19          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 16       | 9.19          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 20       | 9.19          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 20       | 9.19          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 20       | 9.19          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 13       | 9.19          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 13       | 9.19          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 13       | 9.19          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 6        | 9.19          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 6        | 9.19          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 6        | 9.19          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 19       | 9.19          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 19       | 9.19          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 19       | 9.19          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 19       | 9.19          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 19       | 9.19          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 19       | 9.19          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 18       | 9.19          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 18       | 9.19          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 18       | 9.19          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 1        | 9.19          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 1        | 9.19          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 20       | 9.19          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 20       | 9.19          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 14       | 9.19          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 6        | 9.19          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 6        | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 18       | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 18       | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 19       | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 19       | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE1 | 20       | 9.19          |
| (1,3544) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HE2 | 20       | 9.19          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 18       | 9.19          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 18       | 9.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3389) | 1:A:15:ARG:HG2 | 1:A:34:ALA:H   | 20       | 9.19          |
| (1,3389) | 1:A:15:ARG:HG3 | 1:A:34:ALA:H   | 20       | 9.19          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H   | 7        | 9.19          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 19       | 9.19          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 19       | 9.19          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 17       | 9.19          |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2 | 2        | 9.19          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1 | 9        | 9.19          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2 | 9        | 9.19          |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H   | 2        | 9.19          |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H   | 8        | 9.19          |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H   | 10       | 9.19          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 3        | 9.19          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 5        | 9.19          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 7        | 9.19          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 7        | 9.19          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 17       | 9.19          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 3        | 9.19          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 3        | 9.19          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 4        | 9.19          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 4        | 9.19          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 2        | 9.19          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 6        | 9.19          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 17       | 9.19          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 17       | 9.19          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 2        | 9.19          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 5        | 9.19          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 10       | 9.19          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 11       | 9.19          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 9        | 9.19          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 9        | 9.19          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 9        | 9.19          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 9        | 9.19          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 10       | 9.19          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 10       | 9.19          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 14       | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 1        | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 1        | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 11       | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 11       | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 12       | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 12       | 9.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 14       | 9.19          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 14       | 9.19          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 5        | 9.19          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 5        | 9.19          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 10       | 9.19          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 10       | 9.19          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 5        | 9.19          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 5        | 9.19          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 12       | 9.19          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 16       | 9.19          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 19       | 9.19          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 14       | 9.19          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 14       | 9.19          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 11       | 9.19          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 20       | 9.19          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H   | 7        | 9.19          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 16       | 9.19          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 16       | 9.19          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA  | 16       | 9.19          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 9        | 9.18          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 9        | 9.18          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 19       | 9.18          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 19       | 9.18          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 1        | 9.18          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 1        | 9.18          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H   | 12       | 9.18          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 18       | 9.18          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 16       | 9.18          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 16       | 9.18          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 16       | 9.18          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 16       | 9.18          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 17       | 9.18          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 17       | 9.18          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 17       | 9.18          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 17       | 9.18          |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1 | 1        | 9.18          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 6        | 9.18          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 3        | 9.18          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2 | 12       | 9.18          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 18       | 9.18          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 18       | 9.18          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 7        | 9.18          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2  | 7        | 9.18          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3  | 7        | 9.18          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3  | 7        | 9.18          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 13       | 9.18          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H    | 1        | 9.18          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H    | 16       | 9.18          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA   | 13       | 9.18          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H    | 12       | 9.18          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 13       | 9.18          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 13       | 9.18          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2  | 19       | 9.18          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3  | 19       | 9.18          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 11       | 9.18          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 11       | 9.18          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 8        | 9.18          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 8        | 9.18          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H    | 15       | 9.18          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2  | 9        | 9.18          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3  | 9        | 9.18          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 6        | 9.18          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 6        | 9.18          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 18       | 9.18          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 18       | 9.18          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 13       | 9.18          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 2        | 9.18          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 11       | 9.18          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 19       | 9.18          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2  | 3        | 9.18          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3  | 3        | 9.18          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2  | 14       | 9.18          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3  | 14       | 9.18          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 10       | 9.18          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 17       | 9.18          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 17       | 9.18          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 17       | 9.18          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 17       | 9.18          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 11       | 9.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB3 | 11       | 9.18          |
| (1,3697) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HD3 | 5        | 9.18          |
| (1,3672) | 1:A:18:LEU:HA  | 1:A:31:LYS:HG3 | 2        | 9.18          |
| (1,3672) | 1:A:18:LEU:HA  | 1:A:31:LYS:HG3 | 4        | 9.18          |
| (1,3508) | 1:A:16:GLY:HA2 | 1:A:26:CYS:H   | 20       | 9.18          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H   | 1        | 9.18          |
| (1,3458) | 1:A:16:GLY:H   | 1:A:21:SER:H   | 13       | 9.18          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB2 | 18       | 9.18          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB3 | 18       | 9.18          |
| (1,3427) | 1:A:15:ARG:HE  | 1:A:20:CYS:H   | 13       | 9.18          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H   | 12       | 9.18          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H   | 12       | 9.18          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 9        | 9.18          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 9        | 9.18          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 9        | 9.18          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 9        | 9.18          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 2        | 9.18          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 2        | 9.18          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 8        | 9.18          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 8        | 9.18          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 9        | 9.18          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 9        | 9.18          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 17       | 9.18          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 17       | 9.18          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1 | 18       | 9.18          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2 | 18       | 9.18          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1 | 20       | 9.18          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2 | 20       | 9.18          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2 | 6        | 9.18          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3 | 6        | 9.18          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 8        | 9.18          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 8        | 9.18          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 16       | 9.18          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 3        | 9.18          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 5        | 9.18          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 13       | 9.18          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 4        | 9.18          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 6        | 9.18          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 7        | 9.18          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 7        | 9.18          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H   | 5        | 9.18          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 6        | 9.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 6        | 9.18          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 17       | 9.18          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 5        | 9.18          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 5        | 9.18          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 13       | 9.18          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 2        | 9.18          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 2        | 9.18          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 18       | 9.18          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 20       | 9.18          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 3        | 9.18          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 3        | 9.18          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 11       | 9.18          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 12       | 9.18          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 1        | 9.18          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 9        | 9.18          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 16       | 9.18          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 16       | 9.18          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 20       | 9.18          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 20       | 9.18          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 8        | 9.18          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 8        | 9.18          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 13       | 9.17          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 13       | 9.17          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 18       | 9.17          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 18       | 9.17          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 5        | 9.17          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 5        | 9.17          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 20       | 9.17          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 15       | 9.17          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE1 | 2        | 9.17          |
| (1,666)  | 1:A:2:GLY:H    | 1:A:32:TYR:HE2 | 2        | 9.17          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 8        | 9.17          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H   | 5        | 9.17          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 12       | 9.17          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 1        | 9.17          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 1        | 9.17          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 1        | 9.17          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 1        | 9.17          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 11       | 9.17          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 11       | 9.17          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 11       | 9.17          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 11       | 9.17          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 2        | 9.17          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 5        | 9.17          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H    | 2        | 9.17          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H    | 2        | 9.17          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H    | 3        | 9.17          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 3        | 9.17          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 3        | 9.17          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2  | 6        | 9.17          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3  | 6        | 9.17          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 13       | 9.17          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 7        | 9.17          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA   | 6        | 9.17          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 15       | 9.17          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2  | 6        | 9.17          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3  | 6        | 9.17          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3  | 14       | 9.17          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 13       | 9.17          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 13       | 9.17          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 5        | 9.17          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 5        | 9.17          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 14       | 9.17          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 14       | 9.17          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 14       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 12       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 12       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 12       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 12       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 12       | 9.17          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 12       | 9.17          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 4        | 9.17          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 4        | 9.17          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 4        | 9.17          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H    | 9        | 9.17          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 6        | 9.17          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H    | 5        | 9.17          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H    | 17       | 9.17          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H    | 13       | 9.17          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H    | 20       | 9.17          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H    | 20       | 9.17          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H    | 8        | 9.17          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H    | 8        | 9.17          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3  | 18       | 9.17          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 18       | 9.17          |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG  | 1        | 9.17          |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG  | 1        | 9.17          |
| (1,3216) | 1:A:14:CYS:HB2 | 1:A:31:LYS:HA  | 20       | 9.17          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 12       | 9.17          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE1 | 17       | 9.17          |
| (1,3115) | 1:A:13:GLY:H   | 1:A:25:TYR:HE2 | 17       | 9.17          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 7        | 9.17          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 12       | 9.17          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 16       | 9.17          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 18       | 9.17          |
| (1,3113) | 1:A:13:GLY:H   | 1:A:25:TYR:HB3 | 19       | 9.17          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 14       | 9.17          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 14       | 9.17          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA2 | 17       | 9.17          |
| (1,2754) | 1:A:11:TRP:HD1 | 1:A:27:GLY:HA3 | 17       | 9.17          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 20       | 9.17          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 11       | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 7        | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 7        | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 16       | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 16       | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 20       | 9.17          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 20       | 9.17          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE1 | 17       | 9.17          |
| (1,2506) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HE2 | 17       | 9.17          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 18       | 9.17          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 18       | 9.17          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 7        | 9.17          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 7        | 9.17          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 3        | 9.17          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 5        | 9.17          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 1        | 9.17          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 10       | 9.17          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 12       | 9.17          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 2        | 9.17          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 2        | 9.17          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 7        | 9.17          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 7        | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 9        | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 9        | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 13       | 9.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 13       | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 18       | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 18       | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2  | 19       | 9.17          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3  | 19       | 9.17          |
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2  | 14       | 9.17          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 13       | 9.17          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 13       | 9.17          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1  | 8        | 9.17          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2  | 8        | 9.17          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3  | 8        | 9.17          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 1        | 9.17          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 1        | 9.17          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H    | 1        | 9.17          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 7        | 9.17          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 8        | 9.17          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 15       | 9.17          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 14       | 9.17          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H    | 1        | 9.17          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H    | 19       | 9.17          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 8        | 9.17          |
| (1,1032) | 1:A:3:PRO:HD3  | 1:A:26:CYS:HA   | 7        | 9.17          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2  | 6        | 9.17          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3  | 6        | 9.17          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2  | 14       | 9.17          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3  | 14       | 9.17          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2  | 5        | 9.16          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3  | 5        | 9.16          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2  | 5        | 9.16          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3  | 5        | 9.16          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H    | 3        | 9.16          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H    | 3        | 9.16          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 19       | 9.16          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 19       | 9.16          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA   | 16       | 9.16          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA   | 19       | 9.16          |
| (1,636)  | 1:A:2:GLY:H    | 1:A:23:TYR:H    | 10       | 9.16          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2  | 14       | 9.16          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3  | 14       | 9.16          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG   | 4        | 9.16          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG   | 6        | 9.16          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 14       | 9.16          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H    | 1        | 9.16          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 19       | 9.16          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 19       | 9.16          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H    | 10       | 9.16          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H    | 10       | 9.16          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2  | 18       | 9.16          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3  | 9        | 9.16          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 5        | 9.16          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 5        | 9.16          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2  | 18       | 9.16          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3  | 18       | 9.16          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H    | 19       | 9.16          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3  | 12       | 9.16          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 3        | 9.16          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 3        | 9.16          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 3        | 9.16          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H    | 3        | 9.16          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H    | 7        | 9.16          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE21 | 15       | 9.16          |
| (1,3667) | 1:A:18:LEU:HA   | 1:A:22:GLN:HE22 | 15       | 9.16          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA   | 15       | 9.16          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 1        | 9.16          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2  | 15       | 9.16          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H    | 11       | 9.16          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 17       | 9.16          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 17       | 9.16          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H    | 6        | 9.16          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H    | 11       | 9.16          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2  | 16       | 9.16          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3  | 16       | 9.16          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H    | 13       | 9.16          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA   | 10       | 9.16          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1  | 8        | 9.16          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2  | 8        | 9.16          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1  | 19       | 9.16          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2  | 19       | 9.16          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H    | 9        | 9.16          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG   | 1        | 9.16          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG   | 15       | 9.16          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA   | 14       | 9.16          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2  | 5        | 9.16          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3  | 5        | 9.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 10       | 9.16          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 10       | 9.16          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 1        | 9.16          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 1        | 9.16          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H   | 8        | 9.16          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 12       | 9.16          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 12       | 9.16          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 10       | 9.16          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 10       | 9.16          |
| (1,2619) | 1:A:11:TRP:HA  | 1:A:21:SER:H   | 17       | 9.16          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 14       | 9.16          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 11       | 9.16          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 11       | 9.16          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 11       | 9.16          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 11       | 9.16          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 9        | 9.16          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 9        | 9.16          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 6        | 9.16          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 2        | 9.16          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 6        | 9.16          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 8        | 9.16          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 8        | 9.16          |
| (1,2214) | 1:A:9:PRO:HB2  | 1:A:22:GLN:HA  | 17       | 9.16          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 14       | 9.16          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 14       | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 2        | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 2        | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 2        | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB1 | 4        | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB2 | 4        | 9.16          |
| (1,2137) | 1:A:8:GLY:HA3  | 1:A:34:ALA:HB3 | 4        | 9.16          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 14       | 9.16          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 14       | 9.16          |
| (1,2033) | 1:A:8:GLY:H    | 1:A:16:GLY:H   | 14       | 9.16          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 1        | 9.16          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 4        | 9.16          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 16       | 9.16          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 16       | 9.16          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 13       | 9.16          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 1        | 9.16          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 1        | 9.16          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 4        | 9.16          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA3 | 4        | 9.16          |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ1 | 8        | 9.16          |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ2 | 8        | 9.16          |
| (1,1235) | 1:A:4:ASN:HB3   | 1:A:31:LYS:HZ3 | 8        | 9.16          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE1 | 18       | 9.16          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 18       | 9.16          |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2 | 8        | 9.15          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2 | 8        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2 | 1        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2 | 1        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2 | 6        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2 | 6        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2 | 7        | 9.15          |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2 | 7        | 9.15          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 10       | 9.15          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 10       | 9.15          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 14       | 9.15          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 14       | 9.15          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 4        | 9.15          |
| (1,754)  | 1:A:3:PRO:HA    | 1:A:14:CYS:HB2 | 11       | 9.15          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 1        | 9.15          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 1        | 9.15          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 1        | 9.15          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 6        | 9.15          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 6        | 9.15          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 13       | 9.15          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 14       | 9.15          |
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 15       | 9.15          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 3        | 9.15          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 3        | 9.15          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 13       | 9.15          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 17       | 9.15          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 14       | 9.15          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 14       | 9.15          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 19       | 9.15          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 19       | 9.15          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 19       | 9.15          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 19       | 9.15          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 10       | 9.15          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 7        | 9.15          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 6        | 9.15          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 6        | 9.15          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 7        | 9.15          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2  | 14       | 9.15          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2  | 2        | 9.15          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3  | 2        | 9.15          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2  | 7        | 9.15          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3  | 7        | 9.15          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 18       | 9.15          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 18       | 9.15          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2  | 20       | 9.15          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2  | 20       | 9.15          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2  | 20       | 9.15          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 7        | 9.15          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3  | 17       | 9.15          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3  | 7        | 9.15          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2  | 20       | 9.15          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3  | 20       | 9.15          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2  | 19       | 9.15          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3  | 19       | 9.15          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 15       | 9.15          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3  | 15       | 9.15          |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H    | 9        | 9.15          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3  | 7        | 9.15          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1  | 18       | 9.15          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2  | 18       | 9.15          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3  | 18       | 9.15          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H    | 10       | 9.15          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG   | 4        | 9.15          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG   | 12       | 9.15          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2  | 2        | 9.15          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3  | 2        | 9.15          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2  | 6        | 9.15          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3  | 6        | 9.15          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H    | 17       | 9.15          |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H    | 12       | 9.15          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1  | 10       | 9.15          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2  | 10       | 9.15          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1  | 18       | 9.15          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2  | 18       | 9.15          |
| (1,2623) | 1:A:11:TRP:HA   | 1:A:25:TYR:HB3  | 1        | 9.15          |
| (1,2438) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HG3  | 15       | 9.15          |
| (1,2438) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HG3  | 15       | 9.15          |
| (1,2401) | 1:A:9:PRO:HG3   | 1:A:26:CYS:H    | 17       | 9.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 5        | 9.15          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 5        | 9.15          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 16       | 9.15          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 16       | 9.15          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 8        | 9.15          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 8        | 9.15          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 14       | 9.15          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 14       | 9.15          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 7        | 9.15          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 7        | 9.15          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 12       | 9.15          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 12       | 9.15          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 10       | 9.15          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 10       | 9.15          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 10       | 9.15          |
| (1,2009) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HA  | 17       | 9.15          |
| (1,2009) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HA  | 17       | 9.15          |
| (1,1975) | 1:A:7:CYS:H    | 1:A:35:HIS:HD2 | 3        | 9.15          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 17       | 9.15          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 4        | 9.15          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 4        | 9.15          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 14       | 9.15          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 14       | 9.15          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 8        | 9.15          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2 | 15       | 9.15          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3 | 15       | 9.15          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 18       | 9.15          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 2        | 9.14          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 2        | 9.14          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 17       | 9.14          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 17       | 9.14          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 5        | 9.14          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 5        | 9.14          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 13       | 9.14          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 3        | 9.14          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 8        | 9.14          |
| (1,4664) | 1:A:26:CYS:HB2 | 1:A:34:ALA:H   | 14       | 9.14          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 7        | 9.14          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 7        | 9.14          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 8        | 9.14          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1 | 1        | 9.14          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2 | 1        | 9.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 1        | 9.14          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 17       | 9.14          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 17       | 9.14          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 17       | 9.14          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 17       | 9.14          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 7        | 9.14          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 7        | 9.14          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 6        | 9.14          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 6        | 9.14          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 3        | 9.14          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 18       | 9.14          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 18       | 9.14          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 20       | 9.14          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 15       | 9.14          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 12       | 9.14          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 12       | 9.14          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 10       | 9.14          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 10       | 9.14          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 7        | 9.14          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 7        | 9.14          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 7        | 9.14          |
| (1,3647) | 1:A:18:LEU:H    | 1:A:24:GLY:HA2 | 14       | 9.14          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 13       | 9.14          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 10       | 9.14          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 13       | 9.14          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 13       | 9.14          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 13       | 9.14          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 13       | 9.14          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 4        | 9.14          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 4        | 9.14          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 6        | 9.14          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 6        | 9.14          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2 | 15       | 9.14          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3 | 15       | 9.14          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 6        | 9.14          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 6        | 9.14          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 18       | 9.14          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 19       | 9.14          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 3        | 9.14          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 3        | 9.14          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 18       | 9.14          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 20       | 9.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 8        | 9.14          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 6        | 9.14          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG  | 3        | 9.14          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG  | 8        | 9.14          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG  | 11       | 9.14          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG  | 13       | 9.14          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 6        | 9.14          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 6        | 9.14          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 8        | 9.14          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 18       | 9.14          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 19       | 9.14          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 20       | 9.14          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 13       | 9.14          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 13       | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 3        | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 3        | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 5        | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 5        | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 19       | 9.14          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 19       | 9.14          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 11       | 9.14          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 9        | 9.14          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 20       | 9.14          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 11       | 9.14          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 20       | 9.14          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 20       | 9.14          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 17       | 9.14          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 17       | 9.14          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 4        | 9.14          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 14       | 9.14          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 20       | 9.14          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 6        | 9.14          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 4        | 9.14          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 4        | 9.14          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 5        | 9.14          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 5        | 9.14          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 5        | 9.14          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 5        | 9.14          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 4        | 9.14          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 4        | 9.14          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 3        | 9.14          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 10       | 9.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1504) | 1:A:6:GLN:H     | 1:A:9:PRO:HB2  | 2        | 9.14          |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB2 | 6        | 9.14          |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB3 | 6        | 9.14          |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA2 | 14       | 9.14          |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA3 | 14       | 9.14          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB2 | 6        | 9.14          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB3 | 6        | 9.14          |
| (1,1143) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HG  | 20       | 9.14          |
| (1,1135) | 1:A:4:ASN:HB2   | 1:A:15:ARG:H   | 7        | 9.14          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE1 | 19       | 9.14          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 19       | 9.14          |
| (1,1072) | 1:A:4:ASN:H     | 1:A:19:CYS:H   | 9        | 9.14          |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H   | 17       | 9.13          |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2 | 9        | 9.13          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2 | 9        | 9.13          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 20       | 9.13          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 20       | 9.13          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 5        | 9.13          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 5        | 9.13          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 11       | 9.13          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 15       | 9.13          |
| (1,4595) | 1:A:25:TYR:HE1  | 1:A:32:TYR:H   | 17       | 9.13          |
| (1,4595) | 1:A:25:TYR:HE2  | 1:A:32:TYR:H   | 17       | 9.13          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 13       | 9.13          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 13       | 9.13          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 13       | 9.13          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 13       | 9.13          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 12       | 9.13          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 12       | 9.13          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 2        | 9.13          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 6        | 9.13          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 14       | 9.13          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 12       | 9.13          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 12       | 9.13          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 5        | 9.13          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 5        | 9.13          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 12       | 9.13          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 12       | 9.13          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 9        | 9.13          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 18       | 9.13          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 5        | 9.13          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 14       | 9.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 7        | 9.13          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 8        | 9.13          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 17       | 9.13          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 17       | 9.13          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 17       | 9.13          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 17       | 9.13          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 17       | 9.13          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 17       | 9.13          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 4        | 9.13          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3 | 4        | 9.13          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 6        | 9.13          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2 | 6        | 9.13          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 2        | 9.13          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 15       | 9.13          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 15       | 9.13          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 17       | 9.13          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 17       | 9.13          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 1        | 9.13          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 6        | 9.13          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 7        | 9.13          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 19       | 9.13          |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 5        | 9.13          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 2        | 9.13          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 3        | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 6        | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 7        | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 10       | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 14       | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 18       | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 19       | 9.13          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 20       | 9.13          |
| (1,2743) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HA  | 7        | 9.13          |
| (1,2743) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HA  | 12       | 9.13          |
| (1,2726) | 1:A:11:TRP:HD1  | 1:A:15:ARG:H   | 8        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1 | 2        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2 | 2        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1 | 4        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2 | 4        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1 | 9        | 9.13          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2 | 9        | 9.13          |
| (1,2623) | 1:A:11:TRP:HA   | 1:A:25:TYR:HB3 | 15       | 9.13          |
| (1,2368) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HH2 | 14       | 9.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 3        | 9.13          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H   | 17       | 9.13          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 14       | 9.13          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 15       | 9.13          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE1 | 17       | 9.13          |
| (1,2269) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HE2 | 17       | 9.13          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 5        | 9.13          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 5        | 9.13          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 18       | 9.13          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 18       | 9.13          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 8        | 9.13          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 8        | 9.13          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 13       | 9.13          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 13       | 9.13          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 14       | 9.13          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 14       | 9.13          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 3        | 9.13          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 14       | 9.13          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 14       | 9.13          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA  | 5        | 9.13          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 5        | 9.13          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 6        | 9.13          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 2        | 9.13          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 2        | 9.13          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 3        | 9.13          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 3        | 9.13          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 17       | 9.13          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 8        | 9.13          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 9        | 9.13          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 11       | 9.13          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 11       | 9.13          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 9        | 9.13          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 9        | 9.13          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 5        | 9.12          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 5        | 9.12          |
| (1,810)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:HA  | 7        | 9.12          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 13       | 9.12          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 13       | 9.12          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 12       | 9.12          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 12       | 9.12          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 16       | 9.12          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 16       | 9.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 5        | 9.12          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 5        | 9.12          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 5        | 9.12          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 5        | 9.12          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 15       | 9.12          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 15       | 9.12          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 15       | 9.12          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 15       | 9.12          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 13       | 9.12          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 13       | 9.12          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 17       | 9.12          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 17       | 9.12          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 17       | 9.12          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 17       | 9.12          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 3        | 9.12          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 3        | 9.12          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 6        | 9.12          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 6        | 9.12          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 8        | 9.12          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 15       | 9.12          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 3        | 9.12          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 3        | 9.12          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 3        | 9.12          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 3        | 9.12          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 11       | 9.12          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 11       | 9.12          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 6        | 9.12          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 6        | 9.12          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 6        | 9.12          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 6        | 9.12          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 18       | 9.12          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 18       | 9.12          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 18       | 9.12          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 18       | 9.12          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 18       | 9.12          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 18       | 9.12          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 17       | 9.12          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 7        | 9.12          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 7        | 9.12          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 4        | 9.12          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 18       | 9.12          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 7        | 9.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 7        | 9.12          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 8        | 9.12          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 8        | 9.12          |
| (1,4187) | 1:A:22:GLN:HB2  | 1:A:29:GLY:H   | 18       | 9.12          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 15       | 9.12          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 4        | 9.12          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 4        | 9.12          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 11       | 9.12          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 11       | 9.12          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 5        | 9.12          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 12       | 9.12          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 16       | 9.12          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 16       | 9.12          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 16       | 9.12          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 7        | 9.12          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG2 | 1        | 9.12          |
| (1,3613) | 1:A:17:GLY:HA2  | 1:A:31:LYS:HG3 | 1        | 9.12          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 5        | 9.12          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 5        | 9.12          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 5        | 9.12          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 3        | 9.12          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 4        | 9.12          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 8        | 9.12          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 8        | 9.12          |
| (1,3389) | 1:A:15:ARG:HG2  | 1:A:34:ALA:H   | 18       | 9.12          |
| (1,3389) | 1:A:15:ARG:HG3  | 1:A:34:ALA:H   | 18       | 9.12          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 2        | 9.12          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 2        | 9.12          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 3        | 9.12          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 3        | 9.12          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 5        | 9.12          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 5        | 9.12          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1 | 15       | 9.12          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2 | 15       | 9.12          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 5        | 9.12          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 5        | 9.12          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 5        | 9.12          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 4        | 9.12          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 4        | 9.12          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 7        | 9.12          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 7        | 9.12          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 16       | 9.12          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD1  | 17       | 9.12          |
| (1,3135) | 1:A:13:GLY:H   | 1:A:32:TYR:HD2  | 17       | 9.12          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1  | 12       | 9.12          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2  | 12       | 9.12          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG   | 2        | 9.12          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG   | 9        | 9.12          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG   | 16       | 9.12          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 4        | 9.12          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 4        | 9.12          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2  | 15       | 9.12          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3  | 15       | 9.12          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2  | 19       | 9.12          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3  | 19       | 9.12          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 3        | 9.12          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1  | 1        | 9.12          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2  | 1        | 9.12          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 8        | 9.12          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 8        | 9.12          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 13       | 9.12          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 13       | 9.12          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 9        | 9.12          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 9        | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 7        | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 8        | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 12       | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 16       | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 18       | 9.12          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 19       | 9.12          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 3        | 9.12          |
| (1,2319) | 1:A:9:PRO:HG2  | 1:A:20:CYS:H    | 4        | 9.12          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 13       | 9.12          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 13       | 9.12          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H    | 11       | 9.12          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H    | 13       | 9.12          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 5        | 9.12          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2  | 12       | 9.12          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3  | 12       | 9.12          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 15       | 9.12          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 15       | 9.12          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA   | 2        | 9.12          |
| (1,1524) | 1:A:6:GLN:H    | 1:A:22:GLN:HA   | 6        | 9.12          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2   | 10       | 9.12          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1137) | 1:A:4:ASN:HB2  | 1:A:15:ARG:HE  | 1        | 9.12          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 12       | 9.12          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 14       | 9.12          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 20       | 9.11          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 20       | 9.11          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 6        | 9.11          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 6        | 9.11          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 8        | 9.11          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 8        | 9.11          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 16       | 9.11          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 16       | 9.11          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 3        | 9.11          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 5        | 9.11          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 5        | 9.11          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 1        | 9.11          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 1        | 9.11          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 1        | 9.11          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 1        | 9.11          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 10       | 9.11          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 10       | 9.11          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 10       | 9.11          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB1 | 10       | 9.11          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB2 | 10       | 9.11          |
| (1,4602) | 1:A:25:TYR:HE2 | 1:A:34:ALA:HB3 | 10       | 9.11          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 7        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 7        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 7        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 7        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 9        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 9        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 9        | 9.11          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 9        | 9.11          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 12       | 9.11          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 12       | 9.11          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 4        | 9.11          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 4        | 9.11          |
| (1,4547) | 1:A:25:TYR:HB3 | 1:A:31:LYS:H   | 12       | 9.11          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 6        | 9.11          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2 | 6        | 9.11          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3 | 6        | 9.11          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 9        | 9.11          |
| (1,4473) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HB3 | 1        | 9.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 5        | 9.11          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 17       | 9.11          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 11       | 9.11          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 11       | 9.11          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 11       | 9.11          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 11       | 9.11          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 15       | 9.11          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 10       | 9.11          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 16       | 9.11          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 8        | 9.11          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 5        | 9.11          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 3        | 9.11          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 6        | 9.11          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 18       | 9.11          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 8        | 9.11          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 12       | 9.11          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 17       | 9.11          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 17       | 9.11          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 17       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 15       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 15       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 15       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 15       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 17       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 17       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 17       | 9.11          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 17       | 9.11          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 4        | 9.11          |
| (1,3216) | 1:A:14:CYS:HB2  | 1:A:31:LYS:HA  | 16       | 9.11          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 10       | 9.11          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 10       | 9.11          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 5        | 9.11          |
| (1,3156) | 1:A:13:GLY:HA3  | 1:A:23:TYR:H   | 6        | 9.11          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 3        | 9.11          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 5        | 9.11          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 10       | 9.11          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 4        | 9.11          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 5        | 9.11          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 6        | 9.11          |
| (1,3000) | 1:A:12:GLY:H    | 1:A:21:SER:HG  | 5        | 9.11          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2 | 11       | 9.11          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3 | 11       | 9.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 4        | 9.11          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 4        | 9.11          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 11       | 9.11          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 11       | 9.11          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 13       | 9.11          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 13       | 9.11          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 15       | 9.11          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 17       | 9.11          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 14       | 9.11          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 19       | 9.11          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 19       | 9.11          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 6        | 9.11          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 6        | 9.11          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 5        | 9.11          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 5        | 9.11          |
| (1,2050) | 1:A:8:GLY:H    | 1:A:22:GLN:HG3 | 5        | 9.11          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 3        | 9.11          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 8        | 9.11          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 15       | 9.11          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 15       | 9.11          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 1        | 9.11          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 11       | 9.11          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 4        | 9.11          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 2        | 9.11          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 10       | 9.11          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 15       | 9.11          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 15       | 9.11          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 12       | 9.11          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 14       | 9.11          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 3        | 9.11          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 1        | 9.11          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 8        | 9.11          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 9        | 9.11          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 19       | 9.11          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 8        | 9.11          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 2        | 9.11          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 2        | 9.11          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 10       | 9.11          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 10       | 9.11          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 6        | 9.11          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 6        | 9.11          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 1        | 9.1           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 1        | 9.1           |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 16       | 9.1           |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 16       | 9.1           |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 19       | 9.1           |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 19       | 9.1           |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 3        | 9.1           |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 6        | 9.1           |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 6        | 9.1           |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 20       | 9.1           |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 20       | 9.1           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 2        | 9.1           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 2        | 9.1           |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 2        | 9.1           |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 2        | 9.1           |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 5        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 3        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 3        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 6        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 6        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 8        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 8        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 9        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 9        | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 11       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 11       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 13       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 13       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 14       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 14       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 15       | 9.1           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 15       | 9.1           |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 1        | 9.1           |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 2        | 9.1           |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 2        | 9.1           |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 2        | 9.1           |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 2        | 9.1           |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 9        | 9.1           |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 9        | 9.1           |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 9        | 9.1           |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 9        | 9.1           |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 3        | 9.1           |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 3        | 9.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 1        | 9.1           |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 14       | 9.1           |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 9        | 9.1           |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 9        | 9.1           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 6        | 9.1           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 6        | 9.1           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 6        | 9.1           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 6        | 9.1           |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 9        | 9.1           |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 9        | 9.1           |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 9        | 9.1           |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 9        | 9.1           |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 5        | 9.1           |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 5        | 9.1           |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 20       | 9.1           |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 10       | 9.1           |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 5        | 9.1           |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 5        | 9.1           |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 2        | 9.1           |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 4        | 9.1           |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 5        | 9.1           |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 9        | 9.1           |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA  | 7        | 9.1           |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA  | 7        | 9.1           |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA  | 7        | 9.1           |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 6        | 9.1           |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 6        | 9.1           |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 6        | 9.1           |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 10       | 9.1           |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 10       | 9.1           |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 11       | 9.1           |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1 | 12       | 9.1           |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2 | 12       | 9.1           |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 2        | 9.1           |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 6        | 9.1           |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 6        | 9.1           |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 2        | 9.1           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 10       | 9.1           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 10       | 9.1           |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2 | 3        | 9.1           |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3 | 3        | 9.1           |
| (1,2837) | 1:A:11:TRP:HE1  | 1:A:14:CYS:HB2 | 3        | 9.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 3        | 9.1           |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2  | 5        | 9.1           |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 5        | 9.1           |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA   | 16       | 9.1           |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 9        | 9.1           |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1  | 6        | 9.1           |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2  | 6        | 9.1           |
| (1,2652) | 1:A:11:TRP:HB2 | 1:A:22:GLN:HA   | 17       | 9.1           |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 14       | 9.1           |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 14       | 9.1           |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1  | 18       | 9.1           |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2  | 18       | 9.1           |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 9        | 9.1           |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 9        | 9.1           |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1  | 13       | 9.1           |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2  | 13       | 9.1           |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE   | 20       | 9.1           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 11       | 9.1           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 11       | 9.1           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 8        | 9.1           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 8        | 9.1           |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA   | 20       | 9.1           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 17       | 9.1           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 17       | 9.1           |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 3        | 9.1           |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1  | 6        | 9.1           |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2  | 6        | 9.1           |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 19       | 9.1           |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 16       | 9.1           |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 12       | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 2        | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 2        | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 5        | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 5        | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 10       | 9.1           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 10       | 9.1           |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 17       | 9.1           |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 17       | 9.09          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 17       | 9.09          |
| (1,838)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:H    | 9        | 9.09          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 7        | 9.09          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 7        | 9.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 12       | 9.09          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 18       | 9.09          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 19       | 9.09          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 15       | 9.09          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 15       | 9.09          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 15       | 9.09          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB2 | 18       | 9.09          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB3 | 18       | 9.09          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 14       | 9.09          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 4        | 9.09          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 5        | 9.09          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 5        | 9.09          |
| (1,4592) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HB2 | 1        | 9.09          |
| (1,4592) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HB2 | 1        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 3        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 3        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 3        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 3        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 4        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 4        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 4        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 4        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 8        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 8        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 8        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 8        | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 14       | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 14       | 9.09          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 14       | 9.09          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 14       | 9.09          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 1        | 9.09          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 1        | 9.09          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 1        | 9.09          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 1        | 9.09          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 14       | 9.09          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 14       | 9.09          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 14       | 9.09          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 14       | 9.09          |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H   | 3        | 9.09          |
| (1,4473) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HB3 | 16       | 9.09          |
| (1,4458) | 1:A:24:GLY:H   | 1:A:33:CYS:HB2 | 2        | 9.09          |
| (1,4458) | 1:A:24:GLY:H   | 1:A:33:CYS:HB2 | 3        | 9.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 3        | 9.09          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 5        | 9.09          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 5        | 9.09          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 18       | 9.09          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 8        | 9.09          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 14       | 9.09          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 14       | 9.09          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 6        | 9.09          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 6        | 9.09          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 14       | 9.09          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 15       | 9.09          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 15       | 9.09          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 15       | 9.09          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 4        | 9.09          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 4        | 9.09          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 15       | 9.09          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 9        | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 4        | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 4        | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 4        | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1 | 16       | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2 | 16       | 9.09          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3 | 16       | 9.09          |
| (1,3415) | 1:A:15:ARG:HD2  | 1:A:32:TYR:H   | 9        | 9.09          |
| (1,3415) | 1:A:15:ARG:HD3  | 1:A:32:TYR:H   | 9        | 9.09          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 18       | 9.09          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 18       | 9.09          |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 7        | 9.09          |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 7        | 9.09          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H   | 18       | 9.09          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H   | 18       | 9.09          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG  | 9        | 9.09          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG  | 9        | 9.09          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H   | 3        | 9.09          |
| (1,3314) | 1:A:15:ARG:HB2  | 1:A:32:TYR:H   | 11       | 9.09          |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG  | 15       | 9.09          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 16       | 9.09          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 4        | 9.09          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 6        | 9.09          |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 17       | 9.09          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 6        | 9.09          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 10       | 9.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 1        | 9.09          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 1        | 9.09          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 2        | 9.09          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 2        | 9.09          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 10       | 9.09          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 10       | 9.09          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 9        | 9.09          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD1 | 17       | 9.09          |
| (1,2505) | 1:A:10:GLY:HA2 | 1:A:25:TYR:HD2 | 17       | 9.09          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG2 | 9        | 9.09          |
| (1,2490) | 1:A:10:GLY:HA2 | 1:A:15:ARG:HG3 | 9        | 9.09          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 15       | 9.09          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 15       | 9.09          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 4        | 9.09          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 4        | 9.09          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 7        | 9.09          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 11       | 9.09          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 11       | 9.09          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD1 | 17       | 9.09          |
| (1,2268) | 1:A:9:PRO:HB3  | 1:A:25:TYR:HD2 | 17       | 9.09          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 20       | 9.09          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 20       | 9.09          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ1 | 18       | 9.09          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ2 | 18       | 9.09          |
| (1,1967) | 1:A:7:CYS:H    | 1:A:31:LYS:HZ3 | 18       | 9.09          |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 9        | 9.09          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 9        | 9.09          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 6        | 9.09          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 10       | 9.09          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 10       | 9.09          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 17       | 9.09          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 17       | 9.09          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1 | 8        | 9.09          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2 | 8        | 9.09          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3 | 8        | 9.09          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 4        | 9.09          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA2 | 9        | 9.09          |
| (1,1328) | 1:A:4:ASN:HD22 | 1:A:10:GLY:HA3 | 9        | 9.09          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 11       | 9.09          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 11       | 9.09          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 15       | 9.09          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 4        | 9.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 4        | 9.08          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 15       | 9.08          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 15       | 9.08          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 2        | 9.08          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 2        | 9.08          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 5        | 9.08          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 5        | 9.08          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 14       | 9.08          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 14       | 9.08          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 7        | 9.08          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 7        | 9.08          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 15       | 9.08          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 15       | 9.08          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 18       | 9.08          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 18       | 9.08          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 2        | 9.08          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 4        | 9.08          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 19       | 9.08          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 19       | 9.08          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 16       | 9.08          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 20       | 9.08          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 4        | 9.08          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 4        | 9.08          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 7        | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 2        | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 2        | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 8        | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 8        | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 10       | 9.08          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 10       | 9.08          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2 | 10       | 9.08          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3 | 10       | 9.08          |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2 | 2        | 9.08          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1 | 12       | 9.08          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2 | 12       | 9.08          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3 | 12       | 9.08          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 10       | 9.08          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 2        | 9.08          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 3        | 9.08          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB1 | 4        | 9.08          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB2 | 4        | 9.08          |
| (1,4602) | 1:A:25:TYR:HE1 | 1:A:34:ALA:HB3 | 4        | 9.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 4        | 9.08          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 4        | 9.08          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 4        | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 6        | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 6        | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 6        | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 6        | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 10       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 10       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 10       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 10       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 16       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 16       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 16       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 16       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 19       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 19       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 19       | 9.08          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 19       | 9.08          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 6        | 9.08          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 6        | 9.08          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 8        | 9.08          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 13       | 9.08          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 19       | 9.08          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 1        | 9.08          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 1        | 9.08          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 15       | 9.08          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 15       | 9.08          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 7        | 9.08          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 7        | 9.08          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 13       | 9.08          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 13       | 9.08          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 11       | 9.08          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 11       | 9.08          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 19       | 9.08          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 9        | 9.08          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 9        | 9.08          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 17       | 9.08          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 13       | 9.08          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 15       | 9.08          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 15       | 9.08          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 15       | 9.08          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1  | 20       | 9.08          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2  | 20       | 9.08          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 12       | 9.08          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 12       | 9.08          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 4        | 9.08          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H    | 2        | 9.08          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H    | 2        | 9.08          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H    | 2        | 9.08          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 13       | 9.08          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H    | 3        | 9.08          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 4        | 9.08          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 4        | 9.08          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB1  | 2        | 9.08          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB2  | 2        | 9.08          |
| (1,3489) | 1:A:16:GLY:H    | 1:A:34:ALA:HB3  | 2        | 9.08          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2  | 20       | 9.08          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3  | 20       | 9.08          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H    | 6        | 9.08          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H    | 6        | 9.08          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H    | 6        | 9.08          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H    | 6        | 9.08          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 3        | 9.08          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 3        | 9.08          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3  | 13       | 9.08          |
| (1,3168) | 1:A:13:GLY:HA3  | 1:A:35:HIS:HD2  | 6        | 9.08          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 16       | 9.08          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 16       | 9.08          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 16       | 9.08          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1  | 2        | 9.08          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2  | 2        | 9.08          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H    | 8        | 9.08          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA   | 5        | 9.08          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG2  | 14       | 9.08          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG3  | 14       | 9.08          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA   | 4        | 9.08          |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE1  | 10       | 9.08          |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE2  | 10       | 9.08          |
| (1,2223) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HD1  | 19       | 9.08          |
| (1,2223) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HD2  | 19       | 9.08          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB2  | 7        | 9.08          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB3  | 7        | 9.08          |
| (1,2038) | 1:A:8:GLY:H     | 1:A:18:LEU:HG   | 13       | 9.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 17       | 9.08          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 13       | 9.08          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 13       | 9.08          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 2        | 9.08          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 2        | 9.08          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 9        | 9.08          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 9        | 9.08          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA  | 18       | 9.08          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 11       | 9.08          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ1 | 18       | 9.08          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ2 | 18       | 9.08          |
| (1,1235) | 1:A:4:ASN:HB3  | 1:A:31:LYS:HZ3 | 18       | 9.08          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 18       | 9.08          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 18       | 9.08          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 2        | 9.08          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 2        | 9.08          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 16       | 9.07          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 16       | 9.07          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 16       | 9.07          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 16       | 9.07          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 10       | 9.07          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 10       | 9.07          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 7        | 9.07          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 7        | 9.07          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 12       | 9.07          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 12       | 9.07          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 19       | 9.07          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 19       | 9.07          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1 | 5        | 9.07          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1 | 5        | 9.07          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 5        | 9.07          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 5        | 9.07          |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 13       | 9.07          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 17       | 9.07          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 17       | 9.07          |
| (1,4627) | 1:A:26:CYS:H   | 1:A:34:ALA:H   | 7        | 9.07          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 15       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 18       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB2 | 18       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB3 | 18       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE2 | 1:A:28:SER:HB3 | 18       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE1 | 1:A:28:SER:HB2 | 20       | 9.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 20       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 20       | 9.07          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 20       | 9.07          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 11       | 9.07          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 11       | 9.07          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 11       | 9.07          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 11       | 9.07          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 7        | 9.07          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 7        | 9.07          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 9        | 9.07          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 9        | 9.07          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 15       | 9.07          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 15       | 9.07          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 15       | 9.07          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 16       | 9.07          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 18       | 9.07          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 19       | 9.07          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 19       | 9.07          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 15       | 9.07          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 15       | 9.07          |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 2        | 9.07          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 14       | 9.07          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 14       | 9.07          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 14       | 9.07          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 14       | 9.07          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB2 | 15       | 9.07          |
| (1,4308) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HB3 | 15       | 9.07          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB2 | 17       | 9.07          |
| (1,4281) | 1:A:22:GLN:HE21 | 1:A:28:SER:HB3 | 17       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 1        | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 1        | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 11       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 11       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 18       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 18       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 19       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 19       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 20       | 9.07          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 20       | 9.07          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 10       | 9.07          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 18       | 9.07          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 20       | 9.07          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ1  | 15       | 9.07          |
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ2  | 15       | 9.07          |
| (1,3939) | 1:A:20:CYS:H   | 1:A:31:LYS:HZ3  | 15       | 9.07          |
| (1,3854) | 1:A:19:CYS:HA  | 1:A:22:GLN:HE21 | 5        | 9.07          |
| (1,3854) | 1:A:19:CYS:HA  | 1:A:22:GLN:HE22 | 5        | 9.07          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H    | 13       | 9.07          |
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB2  | 17       | 9.07          |
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB3  | 17       | 9.07          |
| (1,3663) | 1:A:18:LEU:H   | 1:A:34:ALA:HA   | 16       | 9.07          |
| (1,3554) | 1:A:17:GLY:H   | 1:A:21:SER:HB3  | 12       | 9.07          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB2  | 20       | 9.07          |
| (1,3447) | 1:A:15:ARG:HE  | 1:A:32:TYR:HB3  | 20       | 9.07          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3  | 3        | 9.07          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1  | 7        | 9.07          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2  | 7        | 9.07          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3  | 7        | 9.07          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1  | 14       | 9.07          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2  | 14       | 9.07          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H    | 9        | 9.07          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2  | 3        | 9.07          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3  | 3        | 9.07          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 12       | 9.07          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2  | 1        | 9.07          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3  | 1        | 9.07          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2  | 15       | 9.07          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3  | 15       | 9.07          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA   | 2        | 9.07          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 6        | 9.07          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 9        | 9.07          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 5        | 9.07          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 5        | 9.07          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 6        | 9.07          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 6        | 9.07          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 16       | 9.07          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 1        | 9.07          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2  | 15       | 9.07          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 16       | 9.07          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 16       | 9.07          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1  | 20       | 9.07          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2  | 20       | 9.07          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 20       | 9.07          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 20       | 9.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 11       | 9.07          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 11       | 9.07          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 1        | 9.07          |
| (1,2146) | 1:A:9:PRO:HA   | 1:A:14:CYS:HB2 | 13       | 9.07          |
| (1,2038) | 1:A:8:GLY:H    | 1:A:18:LEU:HG  | 1        | 9.07          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 19       | 9.07          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 19       | 9.07          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 3        | 9.07          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 3        | 9.07          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 15       | 9.07          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 14       | 9.07          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 7        | 9.07          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 7        | 9.07          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 13       | 9.07          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 13       | 9.07          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1 | 5        | 9.07          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2 | 5        | 9.07          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 5        | 9.07          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 5        | 9.07          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 7        | 9.07          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 7        | 9.07          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 13       | 9.07          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 13       | 9.07          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 3        | 9.06          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 3        | 9.06          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 16       | 9.06          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 16       | 9.06          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 18       | 9.06          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 18       | 9.06          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 14       | 9.06          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 14       | 9.06          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 14       | 9.06          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 14       | 9.06          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 1        | 9.06          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 6        | 9.06          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 7        | 9.06          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 8        | 9.06          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 19       | 9.06          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 19       | 9.06          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 14       | 9.06          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 5        | 9.06          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 5        | 9.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG3 | 5        | 9.06          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 19       | 9.06          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 19       | 9.06          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 19       | 9.06          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 1        | 9.06          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 1        | 9.06          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 5        | 9.06          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 20       | 9.06          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 9        | 9.06          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 9        | 9.06          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 9        | 9.06          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 9        | 9.06          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 1        | 9.06          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 1        | 9.06          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 17       | 9.06          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 18       | 9.06          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 12       | 9.06          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 12       | 9.06          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 7        | 9.06          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 7        | 9.06          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 7        | 9.06          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 6        | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 9        | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 9        | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 12       | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 12       | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 16       | 9.06          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 16       | 9.06          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 15       | 9.06          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 15       | 9.06          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 19       | 9.06          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 9        | 9.06          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 4        | 9.06          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 8        | 9.06          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 2        | 9.06          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 2        | 9.06          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 14       | 9.06          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 17       | 9.06          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 2        | 9.06          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2 | 2        | 9.06          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2 | 20       | 9.06          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA3 | 20       | 9.06          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H    | 16       | 9.06          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H    | 16       | 9.06          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3  | 12       | 9.06          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3  | 12       | 9.06          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1  | 5        | 9.06          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2  | 5        | 9.06          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 14       | 9.06          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1  | 3        | 9.06          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2  | 3        | 9.06          |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 8        | 9.06          |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2  | 13       | 9.06          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 9        | 9.06          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 15       | 9.06          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 20       | 9.06          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2  | 11       | 9.06          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3  | 11       | 9.06          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2  | 13       | 9.06          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3  | 13       | 9.06          |
| (1,2945) | 1:A:11:TRP:HZ2 | 1:A:26:CYS:HB2  | 17       | 9.06          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA   | 3        | 9.06          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA   | 4        | 9.06          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 14       | 9.06          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 14       | 9.06          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2  | 16       | 9.06          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 16       | 9.06          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 2        | 9.06          |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 20       | 9.06          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 1        | 9.06          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 1        | 9.06          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 1        | 9.06          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 1        | 9.06          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 2        | 9.06          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 2        | 9.06          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1  | 11       | 9.06          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2  | 11       | 9.06          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 3        | 9.06          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 3        | 9.06          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 6        | 9.06          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 6        | 9.06          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 19       | 9.06          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 5        | 9.06          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 5        | 9.06          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 10       | 9.06          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 10       | 9.06          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 1        | 9.06          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 1        | 9.06          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 1        | 9.06          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 13       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 7        | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 7        | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 12       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 12       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 16       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 16       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 18       | 9.06          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 18       | 9.06          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 3        | 9.06          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 1        | 9.06          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 1        | 9.06          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 8        | 9.06          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 8        | 9.06          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 20       | 9.06          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 15       | 9.06          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 14       | 9.06          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 20       | 9.06          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 10       | 9.06          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 10       | 9.06          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 16       | 9.06          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 18       | 9.06          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 13       | 9.06          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 5        | 9.06          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 5        | 9.06          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB2 | 13       | 9.05          |
| (1,959)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HB3 | 13       | 9.05          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 19       | 9.05          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 19       | 9.05          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 12       | 9.05          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 12       | 9.05          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 15       | 9.05          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 15       | 9.05          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 4        | 9.05          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 14       | 9.05          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 18       | 9.05          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 18       | 9.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4627) | 1:A:26:CYS:H    | 1:A:34:ALA:H   | 16       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 19       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 19       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 19       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 19       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 20       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 20       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 20       | 9.05          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 20       | 9.05          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 11       | 9.05          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 11       | 9.05          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 2        | 9.05          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 4        | 9.05          |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 17       | 9.05          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 5        | 9.05          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 5        | 9.05          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 5        | 9.05          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 18       | 9.05          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 2        | 9.05          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 2        | 9.05          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 2        | 9.05          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 10       | 9.05          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 10       | 9.05          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 17       | 9.05          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 18       | 9.05          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 18       | 9.05          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 19       | 9.05          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 20       | 9.05          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 6        | 9.05          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 6        | 9.05          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 6        | 9.05          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 6        | 9.05          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 18       | 9.05          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 18       | 9.05          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 18       | 9.05          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 18       | 9.05          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 6        | 9.05          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 18       | 9.05          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 19       | 9.05          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 20       | 9.05          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 4        | 9.05          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 11       | 9.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 11       | 9.05          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 9        | 9.05          |
| (1,4188) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA2 | 16       | 9.05          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 12       | 9.05          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 14       | 9.05          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 14       | 9.05          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 14       | 9.05          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 16       | 9.05          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 5        | 9.05          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 5        | 9.05          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 5        | 9.05          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 3        | 9.05          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 3        | 9.05          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 3        | 9.05          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1 | 5        | 9.05          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2 | 5        | 9.05          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 5        | 9.05          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 5        | 9.05          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H   | 10       | 9.05          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 17       | 9.05          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H   | 7        | 9.05          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 5        | 9.05          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 5        | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 7        | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 7        | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 12       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 12       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 16       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 16       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 18       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 18       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 19       | 9.05          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 19       | 9.05          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 7        | 9.05          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 16       | 9.05          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 18       | 9.05          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 19       | 9.05          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 5        | 9.05          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 10       | 9.05          |
| (1,2685) | 1:A:11:TRP:HB3  | 1:A:19:CYS:H   | 16       | 9.05          |
| (1,2685) | 1:A:11:TRP:HB3  | 1:A:19:CYS:H   | 18       | 9.05          |
| (1,2685) | 1:A:11:TRP:HB3  | 1:A:19:CYS:H   | 19       | 9.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1  | 15       | 9.05          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2  | 15       | 9.05          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 12       | 9.05          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 12       | 9.05          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 18       | 9.05          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 7        | 9.05          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1  | 15       | 9.05          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2  | 15       | 9.05          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 18       | 9.05          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 18       | 9.05          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 19       | 9.05          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 19       | 9.05          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1  | 15       | 9.05          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2  | 15       | 9.05          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 9        | 9.05          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE1  | 17       | 9.05          |
| (1,2101) | 1:A:8:GLY:HA2  | 1:A:32:TYR:HE2  | 17       | 9.05          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 20       | 9.05          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 20       | 9.05          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2   | 8        | 9.05          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3   | 8        | 9.05          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 2        | 9.05          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 5        | 9.05          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 10       | 9.05          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2  | 11       | 9.05          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3  | 11       | 9.05          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2  | 15       | 9.05          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3  | 15       | 9.05          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1  | 2        | 9.05          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2  | 2        | 9.05          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE1  | 10       | 9.05          |
| (1,1528) | 1:A:6:GLN:H    | 1:A:23:TYR:HE2  | 10       | 9.05          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 7        | 9.05          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 9        | 9.05          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 9        | 9.05          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 7        | 9.05          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 19       | 9.05          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2  | 5        | 9.05          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3  | 5        | 9.05          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 20       | 9.05          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG   | 17       | 9.05          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 9        | 9.05          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 9        | 9.05          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 7        | 9.04          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 7        | 9.04          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 8        | 9.04          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 8        | 9.04          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 16       | 9.04          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 16       | 9.04          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 17       | 9.04          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 17       | 9.04          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 14       | 9.04          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 12       | 9.04          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 7        | 9.04          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 7        | 9.04          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 12       | 9.04          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 12       | 9.04          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 12       | 9.04          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 12       | 9.04          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 9        | 9.04          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 10       | 9.04          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 10       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 8        | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 8        | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 8        | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 8        | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 15       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 15       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 15       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 15       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 18       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 18       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 18       | 9.04          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 18       | 9.04          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 9        | 9.04          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 9        | 9.04          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 14       | 9.04          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 14       | 9.04          |
| (1,4542) | 1:A:25:TYR:HB2 | 1:A:35:HIS:HE1 | 19       | 9.04          |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H   | 11       | 9.04          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 4        | 9.04          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 14       | 9.04          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 19       | 9.04          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 20       | 9.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 4        | 9.04          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 7        | 9.04          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 9        | 9.04          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 11       | 9.04          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 12       | 9.04          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2  | 16       | 9.04          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 9        | 9.04          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 11       | 9.04          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2  | 11       | 9.04          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2  | 11       | 9.04          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3  | 11       | 9.04          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3  | 11       | 9.04          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H    | 4        | 9.04          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H    | 4        | 9.04          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2  | 9        | 9.04          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3  | 9        | 9.04          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 12       | 9.04          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 12       | 9.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 19       | 9.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 19       | 9.04          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 20       | 9.04          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 10       | 9.04          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 11       | 9.04          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 8        | 9.04          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 15       | 9.04          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 15       | 9.04          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 15       | 9.04          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 15       | 9.04          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 15       | 9.04          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 15       | 9.04          |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 10       | 9.04          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H    | 17       | 9.04          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 8        | 9.04          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 10       | 9.04          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 10       | 9.04          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 15       | 9.04          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2  | 3        | 9.04          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3  | 3        | 9.04          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 4        | 9.04          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 10       | 9.04          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 10       | 9.04          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 17       | 9.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 16       | 9.04          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 16       | 9.04          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H   | 18       | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2 | 4        | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3 | 4        | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2 | 8        | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3 | 8        | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2 | 20       | 9.04          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3 | 20       | 9.04          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 8        | 9.04          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 12       | 9.04          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 20       | 9.04          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 11       | 9.04          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 15       | 9.04          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 12       | 9.04          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 16       | 9.04          |
| (1,2305) | 1:A:9:PRO:HG2  | 1:A:14:CYS:H   | 1        | 9.04          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 2        | 9.04          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 2        | 9.04          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 13       | 9.04          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 13       | 9.04          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 17       | 9.04          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 17       | 9.04          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 1        | 9.04          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 1        | 9.04          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 20       | 9.04          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 20       | 9.04          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 1        | 9.04          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 11       | 9.04          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 13       | 9.04          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 8        | 9.04          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 17       | 9.04          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 15       | 9.04          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 13       | 9.04          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 13       | 9.04          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H   | 15       | 9.04          |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H   | 19       | 9.04          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 10       | 9.04          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 10       | 9.04          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H   | 17       | 9.03          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H   | 17       | 9.03          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 17       | 9.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2 | 17       | 9.03          |
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 13       | 9.03          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 13       | 9.03          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 7        | 9.03          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 7        | 9.03          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 6        | 9.03          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 17       | 9.03          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2 | 13       | 9.03          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3 | 13       | 9.03          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 17       | 9.03          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 8        | 9.03          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 8        | 9.03          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 8        | 9.03          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 8        | 9.03          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 6        | 9.03          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 6        | 9.03          |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG2 | 2        | 9.03          |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG3 | 2        | 9.03          |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG2 | 4        | 9.03          |
| (1,4636) | 1:A:26:CYS:HA   | 1:A:30:PRO:HG3 | 4        | 9.03          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB2 | 12       | 9.03          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB2 | 12       | 9.03          |
| (1,4583) | 1:A:25:TYR:HE1  | 1:A:28:SER:HB3 | 12       | 9.03          |
| (1,4583) | 1:A:25:TYR:HE2  | 1:A:28:SER:HB3 | 12       | 9.03          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 15       | 9.03          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 15       | 9.03          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 1        | 9.03          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 13       | 9.03          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 12       | 9.03          |
| (1,4458) | 1:A:24:GLY:H    | 1:A:33:CYS:HB2 | 1        | 9.03          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 12       | 9.03          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 12       | 9.03          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 12       | 9.03          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 12       | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 8        | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 8        | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 11       | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 11       | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 16       | 9.03          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 16       | 9.03          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 9        | 9.03          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 9        | 9.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 9        | 9.03          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 18       | 9.03          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 7        | 9.03          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 18       | 9.03          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 15       | 9.03          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 13       | 9.03          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 19       | 9.03          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 15       | 9.03          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 15       | 9.03          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 17       | 9.03          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 17       | 9.03          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 18       | 9.03          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 2        | 9.03          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 2        | 9.03          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 6        | 9.03          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 6        | 9.03          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 6        | 9.03          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 12       | 9.03          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 9        | 9.03          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 9        | 9.03          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 5        | 9.03          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 7        | 9.03          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 7        | 9.03          |
| (1,3391) | 1:A:15:ARG:HG2  | 1:A:35:HIS:H   | 20       | 9.03          |
| (1,3391) | 1:A:15:ARG:HG3  | 1:A:35:HIS:H   | 20       | 9.03          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H   | 2        | 9.03          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA2 | 13       | 9.03          |
| (1,3336) | 1:A:15:ARG:HB3  | 1:A:24:GLY:HA3 | 13       | 9.03          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 16       | 9.03          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 19       | 9.03          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 6        | 9.03          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 6        | 9.03          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 10       | 9.03          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 10       | 9.03          |
| (1,2995) | 1:A:12:GLY:H    | 1:A:19:CYS:H   | 17       | 9.03          |
| (1,2836) | 1:A:11:TRP:HE1  | 1:A:14:CYS:H   | 9        | 9.03          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB2 | 14       | 9.03          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB3 | 14       | 9.03          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB2 | 17       | 9.03          |
| (1,2403) | 1:A:9:PRO:HG3   | 1:A:26:CYS:HB3 | 17       | 9.03          |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE1 | 18       | 9.03          |
| (1,2400) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HE2 | 18       | 9.03          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 12       | 9.03          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 12       | 9.03          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 18       | 9.03          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 19       | 9.03          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1  | 11       | 9.03          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2  | 11       | 9.03          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 8        | 9.03          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 8        | 9.03          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 18       | 9.03          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1  | 2        | 9.03          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2  | 2        | 9.03          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 14       | 9.03          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 14       | 9.03          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 4        | 9.03          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 4        | 9.03          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ1  | 18       | 9.03          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ2  | 18       | 9.03          |
| (1,1578) | 1:A:6:GLN:HA   | 1:A:31:LYS:HZ3  | 18       | 9.03          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2  | 6        | 9.03          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2  | 10       | 9.03          |
| (1,1364) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HA   | 20       | 9.03          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 1        | 9.03          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 5        | 9.03          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 10       | 9.03          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 16       | 9.03          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 1        | 9.03          |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 11       | 9.03          |
| (1,905)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:H    | 10       | 9.02          |
| (1,905)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:H    | 10       | 9.02          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H    | 12       | 9.02          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H    | 12       | 9.02          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1  | 3        | 9.02          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1  | 10       | 9.02          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H    | 14       | 9.02          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H    | 14       | 9.02          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H    | 18       | 9.02          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H    | 18       | 9.02          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 14       | 9.02          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB2  | 15       | 9.02          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB3  | 15       | 9.02          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2  | 10       | 9.02          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3  | 10       | 9.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H   | 6        | 9.02          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 8        | 9.02          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 8        | 9.02          |
| (1,4548) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HA  | 4        | 9.02          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1 | 7        | 9.02          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 7        | 9.02          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 17       | 9.02          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 2        | 9.02          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 10       | 9.02          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 11       | 9.02          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 11       | 9.02          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 15       | 9.02          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 15       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 10       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 10       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 10       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 10       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 19       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 19       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 19       | 9.02          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 19       | 9.02          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 19       | 9.02          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 1        | 9.02          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 1        | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 18       | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 18       | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 19       | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 19       | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 20       | 9.02          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 20       | 9.02          |
| (1,4346) | 1:A:23:TYR:H    | 1:A:29:GLY:H   | 16       | 9.02          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 5        | 9.02          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 5        | 9.02          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 19       | 9.02          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 8        | 9.02          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 8        | 9.02          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 20       | 9.02          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 20       | 9.02          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 10       | 9.02          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 8        | 9.02          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 8        | 9.02          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2 | 13       | 9.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3 | 13       | 9.02          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 1        | 9.02          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 11       | 9.02          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 2        | 9.02          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 2        | 9.02          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 2        | 9.02          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 1        | 9.02          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 7        | 9.02          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 7        | 9.02          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 7        | 9.02          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 16       | 9.02          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 16       | 9.02          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 16       | 9.02          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 19       | 9.02          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 10       | 9.02          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 14       | 9.02          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 14       | 9.02          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H   | 14       | 9.02          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H   | 14       | 9.02          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ1 | 8        | 9.02          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ2 | 8        | 9.02          |
| (1,3253) | 1:A:14:CYS:HB3  | 1:A:31:LYS:HZ3 | 8        | 9.02          |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 1        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 2        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 2        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 3        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 3        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 9        | 9.02          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 9        | 9.02          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD1 | 14       | 9.02          |
| (1,2656) | 1:A:11:TRP:HB2  | 1:A:23:TYR:HD2 | 14       | 9.02          |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H   | 3        | 9.02          |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD1 | 14       | 9.02          |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD2 | 14       | 9.02          |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H   | 20       | 9.02          |
| (1,2305) | 1:A:9:PRO:HG2   | 1:A:14:CYS:H   | 13       | 9.02          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1 | 7        | 9.02          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2 | 7        | 9.02          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1 | 9        | 9.02          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2 | 9        | 9.02          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB2 | 12       | 9.02          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB3 | 12       | 9.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 16       | 9.02          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 16       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 16       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 16       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 18       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 18       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 19       | 9.02          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 19       | 9.02          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 4        | 9.02          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 4        | 9.02          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 19       | 9.02          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 16       | 9.02          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 11       | 9.02          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 11       | 9.02          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 6        | 9.02          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 13       | 9.02          |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3 | 9        | 9.02          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 18       | 9.02          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 4        | 9.02          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 19       | 9.02          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 12       | 9.02          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 12       | 9.02          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 6        | 9.02          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 1        | 9.02          |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2 | 9        | 9.01          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2 | 9        | 9.01          |
| (1,894)  | 1:A:3:PRO:HG2  | 1:A:10:GLY:H   | 11       | 9.01          |
| (1,894)  | 1:A:3:PRO:HG3  | 1:A:10:GLY:H   | 11       | 9.01          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 9        | 9.01          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 15       | 9.01          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 15       | 9.01          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 1        | 9.01          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 1        | 9.01          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD1 | 17       | 9.01          |
| (1,665)  | 1:A:2:GLY:H    | 1:A:32:TYR:HD2 | 17       | 9.01          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 16       | 9.01          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 16       | 9.01          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 7        | 9.01          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 7        | 9.01          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 15       | 9.01          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 8        | 9.01          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2 | 3        | 9.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 15       | 9.01          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 15       | 9.01          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 15       | 9.01          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 15       | 9.01          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 15       | 9.01          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 15       | 9.01          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 15       | 9.01          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD2 | 20       | 9.01          |
| (1,4495) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HD3 | 20       | 9.01          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 15       | 9.01          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 15       | 9.01          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 15       | 9.01          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 15       | 9.01          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 11       | 9.01          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 1        | 9.01          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 1        | 9.01          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 15       | 9.01          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 15       | 9.01          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 17       | 9.01          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 9        | 9.01          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 9        | 9.01          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 9        | 9.01          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 6        | 9.01          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 15       | 9.01          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 15       | 9.01          |
| (1,3967) | 1:A:20:CYS:HB2  | 1:A:29:GLY:HA3 | 17       | 9.01          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 19       | 9.01          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 19       | 9.01          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 9        | 9.01          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 9        | 9.01          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 9        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 8        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 8        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 8        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 8        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 8        | 9.01          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 8        | 9.01          |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 17       | 9.01          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 20       | 9.01          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 20       | 9.01          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 6        | 9.01          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 13       | 9.01          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3 | 13       | 9.01          |
| (1,3351) | 1:A:15:ARG:HB3 | 1:A:33:CYS:H   | 1        | 9.01          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 2        | 9.01          |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H   | 7        | 9.01          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB2 | 5        | 9.01          |
| (1,3008) | 1:A:12:GLY:H   | 1:A:23:TYR:HB3 | 5        | 9.01          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 1        | 9.01          |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3 | 13       | 9.01          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 12       | 9.01          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 12       | 9.01          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 1        | 9.01          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 1        | 9.01          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 19       | 9.01          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 19       | 9.01          |
| (1,2368) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HH2 | 13       | 9.01          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 20       | 9.01          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 20       | 9.01          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 10       | 9.01          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 13       | 9.01          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 16       | 9.01          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 18       | 9.01          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 20       | 9.01          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 8        | 9.01          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 13       | 9.01          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 13       | 9.01          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 5        | 9.0           |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 5        | 9.0           |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 17       | 9.0           |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 19       | 9.0           |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 2        | 9.0           |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 2        | 9.0           |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 10       | 9.0           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2 | 19       | 9.0           |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3 | 19       | 9.0           |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 19       | 9.0           |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 16       | 9.0           |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 16       | 9.0           |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 16       | 9.0           |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 16       | 9.0           |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2 | 19       | 9.0           |
| (1,4473) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HB3 | 8        | 9.0           |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG2 | 20       | 9.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 20       | 9.0           |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 20       | 9.0           |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 20       | 9.0           |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 8        | 9.0           |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 8        | 9.0           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 15       | 9.0           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 15       | 9.0           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 15       | 9.0           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 15       | 9.0           |
| (1,4390) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HA  | 4        | 9.0           |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 12       | 9.0           |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 13       | 9.0           |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 13       | 9.0           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 19       | 9.0           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 19       | 9.0           |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 18       | 9.0           |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 18       | 9.0           |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 3        | 9.0           |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 19       | 9.0           |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 10       | 9.0           |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 17       | 9.0           |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 8        | 9.0           |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 9        | 9.0           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 13       | 9.0           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 13       | 9.0           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 9        | 9.0           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 9        | 9.0           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 9        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 1        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 1        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 1        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 7        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 7        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 7        | 9.0           |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 11       | 9.0           |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 11       | 9.0           |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 11       | 9.0           |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 11       | 9.0           |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 3        | 9.0           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 13       | 9.0           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 13       | 9.0           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 13       | 9.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H    | 3        | 9.0           |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2  | 10       | 9.0           |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2  | 10       | 9.0           |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3  | 10       | 9.0           |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3  | 10       | 9.0           |
| (1,3330) | 1:A:15:ARG:HB3 | 1:A:21:SER:HG   | 13       | 9.0           |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 7        | 9.0           |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3  | 6        | 9.0           |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE21 | 11       | 9.0           |
| (1,3201) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HE22 | 11       | 9.0           |
| (1,3100) | 1:A:13:GLY:H   | 1:A:21:SER:HG   | 17       | 9.0           |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 11       | 9.0           |
| (1,3017) | 1:A:12:GLY:H   | 1:A:27:GLY:H    | 13       | 9.0           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 14       | 9.0           |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H    | 15       | 9.0           |
| (1,2685) | 1:A:11:TRP:HB3 | 1:A:19:CYS:H    | 7        | 9.0           |
| (1,2623) | 1:A:11:TRP:HA  | 1:A:25:TYR:HB3  | 17       | 9.0           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 15       | 9.0           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 15       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 16       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 16       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 16       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 16       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 18       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 18       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 18       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 18       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 19       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 19       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 19       | 9.0           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 19       | 9.0           |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 16       | 9.0           |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 16       | 9.0           |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 1        | 9.0           |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 4        | 9.0           |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 11       | 9.0           |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 8        | 9.0           |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 9        | 9.0           |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 2        | 9.0           |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 5        | 9.0           |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 6        | 9.0           |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 10       | 9.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 6        | 9.0           |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 6        | 9.0           |
| (1,2010) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HB2  | 17       | 9.0           |
| (1,2010) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HB2  | 17       | 9.0           |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2   | 17       | 9.0           |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3   | 17       | 9.0           |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA    | 5        | 9.0           |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 7        | 9.0           |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 12       | 9.0           |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 11       | 9.0           |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 16       | 9.0           |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 18       | 9.0           |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 19       | 9.0           |
| (1,1519) | 1:A:6:GLN:H    | 1:A:19:CYS:HB3  | 20       | 9.0           |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 13       | 9.0           |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3  | 13       | 9.0           |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA   | 19       | 9.0           |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2  | 6        | 9.0           |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 3        | 9.0           |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H    | 18       | 9.0           |
| (1,1072) | 1:A:4:ASN:H    | 1:A:19:CYS:H    | 7        | 9.0           |
| (1,904)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:HA2  | 13       | 8.99          |
| (1,904)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:HA2  | 13       | 8.99          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2  | 18       | 8.99          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 3        | 8.99          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H    | 2        | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2  | 16       | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3  | 16       | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2  | 18       | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3  | 18       | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG2  | 20       | 8.99          |
| (1,4636) | 1:A:26:CYS:HA  | 1:A:30:PRO:HG3  | 20       | 8.99          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H    | 5        | 8.99          |
| (1,4592) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HB2  | 15       | 8.99          |
| (1,4592) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HB2  | 15       | 8.99          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H    | 13       | 8.99          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H    | 13       | 8.99          |
| (1,4526) | 1:A:25:TYR:H   | 1:A:34:ALA:HA   | 7        | 8.99          |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H    | 8        | 8.99          |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H    | 9        | 8.99          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H    | 2        | 8.99          |
| (1,4473) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HB3  | 4        | 8.99          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3  | 15       | 8.99          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 9        | 8.99          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 9        | 8.99          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 9        | 8.99          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 9        | 8.99          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2  | 1        | 8.99          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3  | 1        | 8.99          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2  | 10       | 8.99          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 10       | 8.99          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2  | 17       | 8.99          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3  | 17       | 8.99          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 18       | 8.99          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 14       | 8.99          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 14       | 8.99          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA   | 8        | 8.99          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 18       | 8.99          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 18       | 8.99          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2  | 18       | 8.99          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3  | 10       | 8.99          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1  | 12       | 8.99          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2  | 12       | 8.99          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 9        | 8.99          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 9        | 8.99          |
| (1,3793) | 1:A:18:LEU:HD11 | 1:A:34:ALA:HA   | 14       | 8.99          |
| (1,3793) | 1:A:18:LEU:HD12 | 1:A:34:ALA:HA   | 14       | 8.99          |
| (1,3793) | 1:A:18:LEU:HD13 | 1:A:34:ALA:HA   | 14       | 8.99          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA   | 8        | 8.99          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA   | 8        | 8.99          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA   | 8        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 4        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 9        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 9        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 9        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 9        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 9        | 8.99          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 9        | 8.99          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H    | 8        | 8.99          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2 | 1        | 8.99          |
| (1,3554) | 1:A:17:GLY:H   | 1:A:21:SER:HB3 | 18       | 8.99          |
| (1,3554) | 1:A:17:GLY:H   | 1:A:21:SER:HB3 | 19       | 8.99          |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA  | 11       | 8.99          |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA  | 11       | 8.99          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2 | 10       | 8.99          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3 | 10       | 8.99          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 5        | 8.99          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 1        | 8.99          |
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 11       | 8.99          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 14       | 8.99          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 4        | 8.99          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 5        | 8.99          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 5        | 8.99          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2 | 5        | 8.99          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3 | 5        | 8.99          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 20       | 8.99          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 20       | 8.99          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 20       | 8.99          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 20       | 8.99          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 9        | 8.99          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 9        | 8.99          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD1 | 17       | 8.99          |
| (1,2393) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HD2 | 17       | 8.99          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 20       | 8.99          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 3        | 8.99          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 4        | 8.99          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 8        | 8.99          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 8        | 8.99          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 10       | 8.99          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 10       | 8.99          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE1 | 1        | 8.99          |
| (1,2171) | 1:A:9:PRO:HA   | 1:A:25:TYR:HE2 | 1        | 8.99          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 19       | 8.99          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 19       | 8.99          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 19       | 8.99          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 11       | 8.99          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 18       | 8.99          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 13       | 8.99          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 13       | 8.99          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 10       | 8.99          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 15       | 8.99          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE21 | 9        | 8.99          |
| (1,1651) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HE22 | 9        | 8.99          |
| (1,1523) | 1:A:6:GLN:H     | 1:A:22:GLN:H    | 1        | 8.99          |
| (1,1523) | 1:A:6:GLN:H     | 1:A:22:GLN:H    | 12       | 8.99          |
| (1,1504) | 1:A:6:GLN:H     | 1:A:9:PRO:HB2   | 14       | 8.99          |
| (1,1361) | 1:A:4:ASN:HD22  | 1:A:23:TYR:HB2  | 4        | 8.99          |
| (1,1354) | 1:A:4:ASN:HD22  | 1:A:21:SER:HG   | 4        | 8.99          |
| (1,928)  | 1:A:3:PRO:HG2   | 1:A:24:GLY:HA2  | 14       | 8.98          |
| (1,928)  | 1:A:3:PRO:HG3   | 1:A:24:GLY:HA2  | 14       | 8.98          |
| (1,904)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:HA2  | 11       | 8.98          |
| (1,904)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:HA2  | 11       | 8.98          |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1  | 2        | 8.98          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1  | 15       | 8.98          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H    | 2        | 8.98          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H    | 10       | 8.98          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG2   | 3        | 8.98          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG3   | 3        | 8.98          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD1  | 2        | 8.98          |
| (1,665)  | 1:A:2:GLY:H     | 1:A:32:TYR:HD2  | 2        | 8.98          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H    | 19       | 8.98          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H    | 19       | 8.98          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 6        | 8.98          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2  | 6        | 8.98          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3  | 6        | 8.98          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2  | 13       | 8.98          |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H    | 9        | 8.98          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 11       | 8.98          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H    | 12       | 8.98          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H    | 14       | 8.98          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 13       | 8.98          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 13       | 8.98          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 3        | 8.98          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 3        | 8.98          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 5        | 8.98          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 5        | 8.98          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 5        | 8.98          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 5        | 8.98          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H    | 10       | 8.98          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H    | 10       | 8.98          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 1        | 8.98          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 12       | 8.98          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 12       | 8.98          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 3        | 8.98          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 7        | 8.98          |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 14       | 8.98          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1 | 6        | 8.98          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 20       | 8.98          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE1 | 1        | 8.98          |
| (1,3855) | 1:A:19:CYS:HA   | 1:A:23:TYR:HE2 | 1        | 8.98          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 18       | 8.98          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 15       | 8.98          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 15       | 8.98          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 15       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 18       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 18       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 18       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 18       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 18       | 8.98          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 18       | 8.98          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 10       | 8.98          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 13       | 8.98          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 19       | 8.98          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 1        | 8.98          |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 6        | 8.98          |
| (1,3458) | 1:A:16:GLY:H    | 1:A:21:SER:H   | 14       | 8.98          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 13       | 8.98          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 13       | 8.98          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 4        | 8.98          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 4        | 8.98          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 12       | 8.98          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 20       | 8.98          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 2        | 8.98          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 2        | 8.98          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1 | 10       | 8.98          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2 | 10       | 8.98          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2 | 6        | 8.98          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3 | 6        | 8.98          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 12       | 8.98          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 16       | 8.98          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 18       | 8.98          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 19       | 8.98          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 20       | 8.98          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB2 | 13       | 8.98          |
| (1,2855) | 1:A:11:TRP:HE1  | 1:A:21:SER:HB3 | 13       | 8.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2836) | 1:A:11:TRP:HE1 | 1:A:14:CYS:H   | 13       | 8.98          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2 | 3        | 8.98          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3 | 3        | 8.98          |
| (1,2753) | 1:A:11:TRP:HD1 | 1:A:27:GLY:H   | 17       | 8.98          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 2        | 8.98          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 6        | 8.98          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 10       | 8.98          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 14       | 8.98          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 20       | 8.98          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 20       | 8.98          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 7        | 8.98          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 7        | 8.98          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 8        | 8.98          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 15       | 8.98          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 10       | 8.98          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 20       | 8.98          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 16       | 8.98          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1 | 17       | 8.98          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1 | 17       | 8.98          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 7        | 8.98          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 17       | 8.98          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 17       | 8.98          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 2        | 8.98          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 9        | 8.98          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 16       | 8.98          |
| (1,1490) | 1:A:5:GLY:HA3  | 1:A:29:GLY:H   | 18       | 8.98          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 17       | 8.98          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 17       | 8.98          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 8        | 8.98          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 20       | 8.98          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 6        | 8.97          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 6        | 8.97          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 1        | 8.97          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 1        | 8.97          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 12       | 8.97          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 20       | 8.97          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 13       | 8.97          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 13       | 8.97          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 15       | 8.97          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 15       | 8.97          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 19       | 8.97          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 10       | 8.97          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1  | 5        | 8.97          |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1  | 5        | 8.97          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2  | 3        | 8.97          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3  | 3        | 8.97          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H    | 14       | 8.97          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1  | 7        | 8.97          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2  | 7        | 8.97          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3  | 7        | 8.97          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 17       | 8.97          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 17       | 8.97          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 17       | 8.97          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 8        | 8.97          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 8        | 8.97          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1  | 12       | 8.97          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2  | 12       | 8.97          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3  | 12       | 8.97          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3  | 13       | 8.97          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 14       | 8.97          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2  | 17       | 8.97          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3  | 17       | 8.97          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 17       | 8.97          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 17       | 8.97          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 5        | 8.97          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3  | 3        | 8.97          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 17       | 8.97          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 3        | 8.97          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 6        | 8.97          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2  | 2        | 8.97          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3  | 2        | 8.97          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG2  | 4        | 8.97          |
| (1,4082) | 1:A:21:SER:HG   | 1:A:30:PRO:HG3  | 4        | 8.97          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 19       | 8.97          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 19       | 8.97          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 3        | 8.97          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA   | 5        | 8.97          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA   | 5        | 8.97          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA   | 5        | 8.97          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA   | 12       | 8.97          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA   | 12       | 8.97          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA   | 12       | 8.97          |
| (1,3783) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HB3  | 14       | 8.97          |
| (1,3783) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HB3  | 14       | 8.97          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3783) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HB3  | 14       | 8.97          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA   | 18       | 8.97          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 8        | 8.97          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3  | 7        | 8.97          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE1  | 17       | 8.97          |
| (1,3519) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HE2  | 17       | 8.97          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA   | 12       | 8.97          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA   | 12       | 8.97          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3  | 20       | 8.97          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3  | 20       | 8.97          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 8        | 8.97          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 8        | 8.97          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 20       | 8.97          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 20       | 8.97          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1  | 18       | 8.97          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2  | 18       | 8.97          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1  | 20       | 8.97          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2  | 20       | 8.97          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA   | 7        | 8.97          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA   | 8        | 8.97          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA   | 9        | 8.97          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 19       | 8.97          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2  | 4        | 8.97          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3  | 4        | 8.97          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H    | 10       | 8.97          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB2  | 14       | 8.97          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB3  | 14       | 8.97          |
| (1,2320) | 1:A:9:PRO:HG2   | 1:A:21:SER:H    | 2        | 8.97          |
| (1,2320) | 1:A:9:PRO:HG2   | 1:A:21:SER:H    | 5        | 8.97          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1  | 2        | 8.97          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2  | 2        | 8.97          |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE21 | 2        | 8.97          |
| (1,2051) | 1:A:8:GLY:H     | 1:A:22:GLN:HE22 | 2        | 8.97          |
| (1,1895) | 1:A:6:GLN:HE22  | 1:A:23:TYR:HA   | 19       | 8.97          |
| (1,1867) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HG2   | 15       | 8.97          |
| (1,1867) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HG3   | 15       | 8.97          |
| (1,1837) | 1:A:6:GLN:HE21  | 1:A:27:GLY:HA2  | 4        | 8.97          |
| (1,1837) | 1:A:6:GLN:HE21  | 1:A:27:GLY:HA3  | 4        | 8.97          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE21 | 3        | 8.97          |
| (1,1566) | 1:A:6:GLN:HA    | 1:A:22:GLN:HE22 | 3        | 8.97          |
| (1,1519) | 1:A:6:GLN:H     | 1:A:19:CYS:HB3  | 7        | 8.97          |
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H    | 19       | 8.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1490) | 1:A:5:GLY:HA3   | 1:A:29:GLY:H   | 20       | 8.97          |
| (1,1432) | 1:A:5:GLY:H     | 1:A:23:TYR:HA  | 7        | 8.97          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 3        | 8.97          |
| (1,1354) | 1:A:4:ASN:HD22  | 1:A:21:SER:HG  | 10       | 8.97          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB2 | 13       | 8.97          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB3 | 13       | 8.97          |
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE1 | 17       | 8.97          |
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE2 | 17       | 8.97          |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H   | 7        | 8.97          |
| (1,1212) | 1:A:4:ASN:HB3   | 1:A:22:GLN:H   | 19       | 8.97          |
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H   | 9        | 8.97          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 9        | 8.97          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE1 | 17       | 8.97          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 17       | 8.97          |
| (1,1012) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HB2 | 17       | 8.97          |
| (1,1012) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HB3 | 17       | 8.97          |
| (1,907)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:H   | 11       | 8.96          |
| (1,907)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:H   | 11       | 8.96          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 11       | 8.96          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 18       | 8.96          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB2 | 9        | 8.96          |
| (1,629)  | 1:A:2:GLY:H     | 1:A:19:CYS:HB3 | 9        | 8.96          |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1 | 6        | 8.96          |
| (1,4740) | 1:A:28:SER:H    | 1:A:35:HIS:HE1 | 20       | 8.96          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 5        | 8.96          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 5        | 8.96          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 4        | 8.96          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 4        | 8.96          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 14       | 8.96          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 14       | 8.96          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 14       | 8.96          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 14       | 8.96          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 16       | 8.96          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 16       | 8.96          |
| (1,4526) | 1:A:25:TYR:H    | 1:A:34:ALA:HA  | 16       | 8.96          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 20       | 8.96          |
| (1,4483) | 1:A:24:GLY:HA2  | 1:A:34:ALA:H   | 13       | 8.96          |
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 2        | 8.96          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 2        | 8.96          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB2 | 15       | 8.96          |
| (1,4312) | 1:A:22:GLN:HE22 | 1:A:28:SER:HB3 | 15       | 8.96          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 19       | 8.96          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 4        | 8.96          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H    | 11       | 8.96          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2  | 3        | 8.96          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3  | 3        | 8.96          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 20       | 8.96          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 3        | 8.96          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 17       | 8.96          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 3        | 8.96          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 12       | 8.96          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 12       | 8.96          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 12       | 8.96          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 12       | 8.96          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 8        | 8.96          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE21 | 16       | 8.96          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE21 | 16       | 8.96          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE21 | 16       | 8.96          |
| (1,3771) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HE22 | 16       | 8.96          |
| (1,3771) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HE22 | 16       | 8.96          |
| (1,3771) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HE22 | 16       | 8.96          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2  | 4        | 8.96          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3  | 4        | 8.96          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 7        | 8.96          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 7        | 8.96          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 3        | 8.96          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 4        | 8.96          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 12       | 8.96          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 12       | 8.96          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE1  | 5        | 8.96          |
| (1,3161) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HE2  | 5        | 8.96          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H    | 20       | 8.96          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 7        | 8.96          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 18       | 8.96          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2  | 6        | 8.96          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3  | 6        | 8.96          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H    | 16       | 8.96          |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H    | 5        | 8.96          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H    | 5        | 8.96          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H    | 6        | 8.96          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD1  | 6        | 8.96          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD2  | 6        | 8.96          |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB1  | 12       | 8.96          |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB2  | 12       | 8.96          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 12       | 8.96          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 12       | 8.96          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 12       | 8.96          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 12       | 8.96          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 16       | 8.96          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 16       | 8.96          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 16       | 8.96          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 16       | 8.96          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 9        | 8.96          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 1        | 8.96          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 1        | 8.96          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 9        | 8.96          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 20       | 8.96          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 18       | 8.96          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 9        | 8.96          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 12       | 8.96          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 8        | 8.96          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 9        | 8.96          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H   | 16       | 8.96          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 8        | 8.96          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 10       | 8.96          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 5        | 8.96          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 20       | 8.95          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 17       | 8.95          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 16       | 8.95          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 16       | 8.95          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE  | 15       | 8.95          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 11       | 8.95          |
| (1,4629) | 1:A:26:CYS:H   | 1:A:35:HIS:H   | 17       | 8.95          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 13       | 8.95          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 13       | 8.95          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 13       | 8.95          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 13       | 8.95          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 4        | 8.95          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 8        | 8.95          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG2 | 12       | 8.95          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG3 | 12       | 8.95          |
| (1,4424) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HG2 | 12       | 8.95          |
| (1,4424) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HG3 | 12       | 8.95          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 1        | 8.95          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2 | 1        | 8.95          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB3 | 1        | 8.95          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 20       | 8.95          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 20       | 8.95          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 20       | 8.95          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 17       | 8.95          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 17       | 8.95          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 18       | 8.95          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 18       | 8.95          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 6        | 8.95          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 7        | 8.95          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 7        | 8.95          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 18       | 8.95          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 5        | 8.95          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 6        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 3        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 3        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 4        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 4        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 6        | 8.95          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 6        | 8.95          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 15       | 8.95          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 18       | 8.95          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 3        | 8.95          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 2        | 8.95          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 2        | 8.95          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 5        | 8.95          |
| (1,3554) | 1:A:17:GLY:H    | 1:A:21:SER:HB3 | 16       | 8.95          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 2        | 8.95          |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 4        | 8.95          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 18       | 8.95          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 5        | 8.95          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 5        | 8.95          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 8        | 8.95          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 8        | 8.95          |
| (1,3273) | 1:A:15:ARG:H    | 1:A:29:GLY:HA3 | 18       | 8.95          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1 | 13       | 8.95          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2 | 13       | 8.95          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 19       | 8.95          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 19       | 8.95          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 14       | 8.95          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 14       | 8.95          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG  | 16       | 8.95          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG  | 20       | 8.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H    | 2        | 8.95          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H    | 4        | 8.95          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 13       | 8.95          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 13       | 8.95          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 3        | 8.95          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 3        | 8.95          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 4        | 8.95          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 4        | 8.95          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 15       | 8.95          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 15       | 8.95          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 15       | 8.95          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 15       | 8.95          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 8        | 8.95          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 8        | 8.95          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 9        | 8.95          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 12       | 8.95          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 20       | 8.95          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 16       | 8.95          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 16       | 8.95          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 7        | 8.95          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 20       | 8.95          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 7        | 8.95          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 14       | 8.95          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 19       | 8.95          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 20       | 8.95          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 1        | 8.95          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 1        | 8.95          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 8        | 8.95          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 8        | 8.95          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 8        | 8.95          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 8        | 8.95          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 5        | 8.95          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 6        | 8.95          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 14       | 8.95          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 14       | 8.95          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 7        | 8.95          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 18       | 8.95          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 19       | 8.95          |
| (1,1712) | 1:A:6:GLN:HG2  | 1:A:20:CYS:H    | 20       | 8.95          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 5        | 8.95          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2  | 6        | 8.95          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3  | 6        | 8.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 16       | 8.95          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 16       | 8.95          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 17       | 8.95          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 17       | 8.95          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 4        | 8.95          |
| (1,1212) | 1:A:4:ASN:HB3  | 1:A:22:GLN:H   | 2        | 8.95          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 10       | 8.95          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 1        | 8.95          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 1        | 8.95          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 4        | 8.94          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 4        | 8.94          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 1        | 8.94          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 14       | 8.94          |
| (1,687)  | 1:A:2:GLY:HA2  | 1:A:18:LEU:HB2 | 8        | 8.94          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 9        | 8.94          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB2 | 17       | 8.94          |
| (1,629)  | 1:A:2:GLY:H    | 1:A:19:CYS:HB3 | 17       | 8.94          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 17       | 8.94          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 17       | 8.94          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H   | 15       | 8.94          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1 | 9        | 8.94          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2 | 9        | 8.94          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3 | 9        | 8.94          |
| (1,4412) | 1:A:23:TYR:HD1 | 1:A:34:ALA:HA  | 12       | 8.94          |
| (1,4412) | 1:A:23:TYR:HD2 | 1:A:34:ALA:HA  | 12       | 8.94          |
| (1,4388) | 1:A:23:TYR:HB3 | 1:A:28:SER:H   | 10       | 8.94          |
| (1,4382) | 1:A:23:TYR:HB2 | 1:A:34:ALA:H   | 2        | 8.94          |
| (1,4382) | 1:A:23:TYR:HB2 | 1:A:34:ALA:H   | 8        | 8.94          |
| (1,4348) | 1:A:23:TYR:H   | 1:A:30:PRO:HB2 | 2        | 8.94          |
| (1,4348) | 1:A:23:TYR:H   | 1:A:30:PRO:HB3 | 2        | 8.94          |
| (1,4205) | 1:A:22:GLN:HB2 | 1:A:33:CYS:HB3 | 1        | 8.94          |
| (1,4180) | 1:A:22:GLN:HG2 | 1:A:27:GLY:HA2 | 20       | 8.94          |
| (1,4175) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HB2 | 11       | 8.94          |
| (1,4120) | 1:A:22:GLN:H   | 1:A:30:PRO:HD3 | 6        | 8.94          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD2 | 4        | 8.94          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD3 | 4        | 8.94          |
| (1,3862) | 1:A:19:CYS:HA  | 1:A:31:LYS:HG2 | 11       | 8.94          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 2        | 8.94          |
| (1,3697) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HD3 | 20       | 8.94          |
| (1,3643) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HE1 | 10       | 8.94          |
| (1,3642) | 1:A:17:GLY:HA3 | 1:A:35:HIS:HD2 | 10       | 8.94          |
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H   | 6        | 8.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB2 | 10       | 8.94          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB3 | 10       | 8.94          |
| (1,3553) | 1:A:17:GLY:H   | 1:A:21:SER:H   | 10       | 8.94          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 12       | 8.94          |
| (1,3403) | 1:A:15:ARG:HD2 | 1:A:24:GLY:H   | 1        | 8.94          |
| (1,3403) | 1:A:15:ARG:HD3 | 1:A:24:GLY:H   | 1        | 8.94          |
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3 | 18       | 8.94          |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3 | 18       | 8.94          |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG  | 18       | 8.94          |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG  | 18       | 8.94          |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3 | 19       | 8.94          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 16       | 8.94          |
| (1,3144) | 1:A:13:GLY:HA2 | 1:A:33:CYS:H   | 18       | 8.94          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 15       | 8.94          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD1 | 17       | 8.94          |
| (1,2670) | 1:A:11:TRP:HB2 | 1:A:32:TYR:HD2 | 17       | 8.94          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 3        | 8.94          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 8        | 8.94          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 20       | 8.94          |
| (1,2477) | 1:A:10:GLY:H   | 1:A:26:CYS:HA  | 17       | 8.94          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 4        | 8.94          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H   | 6        | 8.94          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 8        | 8.94          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 14       | 8.94          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 17       | 8.94          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3 | 19       | 8.94          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 14       | 8.94          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 14       | 8.94          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 8        | 8.94          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 16       | 8.94          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 19       | 8.94          |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 6        | 8.94          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 12       | 8.94          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG2  | 9        | 8.94          |
| (1,1867) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HG3  | 9        | 8.94          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 1        | 8.94          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 1        | 8.94          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 15       | 8.94          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 15       | 8.94          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 1        | 8.94          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 19       | 8.94          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 14       | 8.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB2 | 1        | 8.94          |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB3 | 1        | 8.94          |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA2 | 15       | 8.94          |
| (1,1367) | 1:A:4:ASN:HD22  | 1:A:27:GLY:HA3 | 15       | 8.94          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB2 | 8        | 8.94          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB3 | 8        | 8.94          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB2 | 19       | 8.94          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB3 | 19       | 8.94          |
| (1,1145) | 1:A:4:ASN:HB2   | 1:A:19:CYS:H   | 9        | 8.94          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD1 | 9        | 8.94          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD2 | 9        | 8.94          |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 17       | 8.94          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB2 | 14       | 8.93          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB3 | 14       | 8.93          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB2 | 15       | 8.93          |
| (1,959)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HB3 | 15       | 8.93          |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1 | 6        | 8.93          |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1 | 10       | 8.93          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 7        | 8.93          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 19       | 8.93          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 13       | 8.93          |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG  | 6        | 8.93          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 7        | 8.93          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG2  | 11       | 8.93          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG3  | 11       | 8.93          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 17       | 8.93          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 17       | 8.93          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 17       | 8.93          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 9        | 8.93          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 9        | 8.93          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 6        | 8.93          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 6        | 8.93          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 10       | 8.93          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 10       | 8.93          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 10       | 8.93          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 10       | 8.93          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 3        | 8.93          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 20       | 8.93          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB2 | 4        | 8.93          |
| (1,4348) | 1:A:23:TYR:H    | 1:A:30:PRO:HB3 | 4        | 8.93          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 16       | 8.93          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 7        | 8.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 17       | 8.93          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 3        | 8.93          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 11       | 8.93          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 11       | 8.93          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 12       | 8.93          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 12       | 8.93          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 17       | 8.93          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 17       | 8.93          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 3        | 8.93          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 3        | 8.93          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 3        | 8.93          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 11       | 8.93          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 10       | 8.93          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 10       | 8.93          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 14       | 8.93          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 14       | 8.93          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 14       | 8.93          |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 2        | 8.93          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 11       | 8.93          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 11       | 8.93          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 4        | 8.93          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 4        | 8.93          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 18       | 8.93          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 18       | 8.93          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 18       | 8.93          |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 18       | 8.93          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H   | 3        | 8.93          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H   | 3        | 8.93          |
| (1,3385) | 1:A:15:ARG:HG2  | 1:A:32:TYR:HA  | 20       | 8.93          |
| (1,3385) | 1:A:15:ARG:HG3  | 1:A:32:TYR:HA  | 20       | 8.93          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 13       | 8.93          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 13       | 8.93          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 8        | 8.93          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 17       | 8.93          |
| (1,3144) | 1:A:13:GLY:HA2  | 1:A:33:CYS:H   | 19       | 8.93          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2 | 5        | 8.93          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3 | 5        | 8.93          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG  | 8        | 8.93          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG  | 12       | 8.93          |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE  | 1        | 8.93          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 9        | 8.93          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 12       | 8.93          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H    | 18       | 8.93          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H    | 19       | 8.93          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 3        | 8.93          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 6        | 8.93          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 13       | 8.93          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 7        | 8.93          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 12       | 8.93          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 16       | 8.93          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 18       | 8.93          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 18       | 8.93          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 18       | 8.93          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 15       | 8.93          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 15       | 8.93          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 11       | 8.93          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 15       | 8.93          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 18       | 8.93          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 1        | 8.93          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H    | 8        | 8.93          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 8        | 8.93          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 9        | 8.93          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H    | 15       | 8.93          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 5        | 8.93          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 5        | 8.93          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 3        | 8.93          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 3        | 8.93          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 8        | 8.93          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 15       | 8.93          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 16       | 8.93          |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2  | 18       | 8.93          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 17       | 8.93          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 17       | 8.93          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 13       | 8.93          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 15       | 8.93          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 20       | 8.93          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 15       | 8.93          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3  | 15       | 8.93          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2  | 7        | 8.93          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3  | 7        | 8.93          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2  | 18       | 8.93          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3  | 18       | 8.93          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H    | 6        | 8.93          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H    | 15       | 8.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,894)  | 1:A:3:PRO:HG2   | 1:A:10:GLY:H   | 9        | 8.92          |
| (1,894)  | 1:A:3:PRO:HG3   | 1:A:10:GLY:H   | 9        | 8.92          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 18       | 8.92          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 10       | 8.92          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 10       | 8.92          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 17       | 8.92          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG2  | 6        | 8.92          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG3  | 6        | 8.92          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 2        | 8.92          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 14       | 8.92          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 14       | 8.92          |
| (1,4577) | 1:A:25:TYR:HD1  | 1:A:34:ALA:H   | 2        | 8.92          |
| (1,4577) | 1:A:25:TYR:HD2  | 1:A:34:ALA:H   | 2        | 8.92          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 5        | 8.92          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 5        | 8.92          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 8        | 8.92          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 13       | 8.92          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 10       | 8.92          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 10       | 8.92          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 6        | 8.92          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 6        | 8.92          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 6        | 8.92          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 6        | 8.92          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 15       | 8.92          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 15       | 8.92          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 3        | 8.92          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 3        | 8.92          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 2        | 8.92          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 19       | 8.92          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 1        | 8.92          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 16       | 8.92          |
| (1,4282) | 1:A:22:GLN:HE21 | 1:A:29:GLY:H   | 17       | 8.92          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 2        | 8.92          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 20       | 8.92          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 14       | 8.92          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 14       | 8.92          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 13       | 8.92          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 13       | 8.92          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 10       | 8.92          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 17       | 8.92          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 17       | 8.92          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 17       | 8.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2  | 13       | 8.92          |
| (1,3573) | 1:A:17:GLY:H   | 1:A:30:PRO:HA   | 11       | 8.92          |
| (1,3573) | 1:A:17:GLY:H   | 1:A:30:PRO:HA   | 13       | 8.92          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1  | 3        | 8.92          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2  | 3        | 8.92          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3  | 2        | 8.92          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3  | 2        | 8.92          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H    | 20       | 8.92          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H    | 20       | 8.92          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 15       | 8.92          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 15       | 8.92          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 4        | 8.92          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2  | 14       | 8.92          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3  | 14       | 8.92          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG   | 9        | 8.92          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 2        | 8.92          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 2        | 8.92          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 10       | 8.92          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 10       | 8.92          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 15       | 8.92          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 15       | 8.92          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 10       | 8.92          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 10       | 8.92          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 10       | 8.92          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 10       | 8.92          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA   | 10       | 8.92          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 13       | 8.92          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 13       | 8.92          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 9        | 8.92          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 9        | 8.92          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 1        | 8.92          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H    | 11       | 8.92          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2  | 11       | 8.92          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3  | 11       | 8.92          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 4        | 8.92          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 9        | 8.92          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3  | 9        | 8.92          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 11       | 8.92          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3  | 11       | 8.92          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 1        | 8.92          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 1        | 8.92          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 6        | 8.92          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H   | 16       | 8.92          |
| (1,1195) | 1:A:4:ASN:HB3   | 1:A:12:GLY:H   | 6        | 8.92          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1 | 9        | 8.92          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 9        | 8.92          |
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1 | 17       | 8.91          |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1 | 17       | 8.91          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 8        | 8.91          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 12       | 8.91          |
| (1,777)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HD1 | 16       | 8.91          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG2  | 20       | 8.91          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG3  | 20       | 8.91          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 15       | 8.91          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 4        | 8.91          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 4        | 8.91          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 4        | 8.91          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 4        | 8.91          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2 | 10       | 8.91          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2 | 10       | 8.91          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 10       | 8.91          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 10       | 8.91          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2 | 1        | 8.91          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 2        | 8.91          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 4        | 8.91          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 4        | 8.91          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 17       | 8.91          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 17       | 8.91          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 17       | 8.91          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 17       | 8.91          |
| (1,4547) | 1:A:25:TYR:HB3  | 1:A:31:LYS:H   | 4        | 8.91          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 9        | 8.91          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 9        | 8.91          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 9        | 8.91          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 9        | 8.91          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 10       | 8.91          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 10       | 8.91          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 5        | 8.91          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 13       | 8.91          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 13       | 8.91          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 20       | 8.91          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 20       | 8.91          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 8        | 8.91          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 2        | 8.91          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 3        | 8.91          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 14       | 8.91          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 19       | 8.91          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 7        | 8.91          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 13       | 8.91          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 2        | 8.91          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 2        | 8.91          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 2        | 8.91          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 20       | 8.91          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 14       | 8.91          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 18       | 8.91          |
| (1,3697) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HD3 | 19       | 8.91          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 17       | 8.91          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 10       | 8.91          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 14       | 8.91          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 14       | 8.91          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 14       | 8.91          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 8        | 8.91          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 17       | 8.91          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 17       | 8.91          |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 9        | 8.91          |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 9        | 8.91          |
| (1,3350) | 1:A:15:ARG:HB3  | 1:A:32:TYR:HA  | 13       | 8.91          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 9        | 8.91          |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG  | 13       | 8.91          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 17       | 8.91          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 17       | 8.91          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1 | 15       | 8.91          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2 | 15       | 8.91          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 2        | 8.91          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 4        | 8.91          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 10       | 8.91          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 3        | 8.91          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2 | 1        | 8.91          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3 | 1        | 8.91          |
| (1,3113) | 1:A:13:GLY:H    | 1:A:25:TYR:HB3 | 17       | 8.91          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 1        | 8.91          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 7        | 8.91          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 11       | 8.91          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 16       | 8.91          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD1 | 7        | 8.91          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD2 | 7        | 8.91          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD1 | 7        | 8.91          |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD2 | 7        | 8.91          |
| (1,2391) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HA  | 2        | 8.91          |
| (1,2298) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HZ3 | 11       | 8.91          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1 | 19       | 8.91          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2 | 19       | 8.91          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3 | 8        | 8.91          |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 9        | 8.91          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 14       | 8.91          |
| (1,1972) | 1:A:7:CYS:H     | 1:A:33:CYS:HA  | 10       | 8.91          |
| (1,1870) | 1:A:6:GLN:HE22  | 1:A:10:GLY:HA2 | 10       | 8.91          |
| (1,1523) | 1:A:6:GLN:H     | 1:A:22:GLN:H   | 14       | 8.91          |
| (1,1504) | 1:A:6:GLN:H     | 1:A:9:PRO:HB2  | 1        | 8.91          |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB2 | 12       | 8.91          |
| (1,1444) | 1:A:5:GLY:H     | 1:A:28:SER:HB3 | 12       | 8.91          |
| (1,1354) | 1:A:4:ASN:HD22  | 1:A:21:SER:HG  | 13       | 8.91          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1 | 2        | 8.91          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 2        | 8.91          |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB2 | 13       | 8.91          |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB3 | 13       | 8.91          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB2 | 2        | 8.9           |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB3 | 2        | 8.9           |
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1 | 4        | 8.9           |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 12       | 8.9           |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 3        | 8.9           |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 3        | 8.9           |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 3        | 8.9           |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 3        | 8.9           |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 10       | 8.9           |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 11       | 8.9           |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 2        | 8.9           |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 1        | 8.9           |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 1        | 8.9           |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 20       | 8.9           |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 20       | 8.9           |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 12       | 8.9           |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 17       | 8.9           |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 12       | 8.9           |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 16       | 8.9           |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 16       | 8.9           |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 4        | 8.9           |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 5        | 8.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 5        | 8.9           |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 9        | 8.9           |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 3        | 8.9           |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 3        | 8.9           |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 7        | 8.9           |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 7        | 8.9           |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 9        | 8.9           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 13       | 8.9           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 13       | 8.9           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 13       | 8.9           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 13       | 8.9           |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 13       | 8.9           |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 13       | 8.9           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 2        | 8.9           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 2        | 8.9           |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1 | 10       | 8.9           |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 4        | 8.9           |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 14       | 8.9           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 3        | 8.9           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 3        | 8.9           |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 17       | 8.9           |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 17       | 8.9           |
| (1,3403) | 1:A:15:ARG:HD2  | 1:A:24:GLY:H   | 19       | 8.9           |
| (1,3403) | 1:A:15:ARG:HD3  | 1:A:24:GLY:H   | 19       | 8.9           |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H   | 4        | 8.9           |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H   | 4        | 8.9           |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H   | 2        | 8.9           |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H   | 3        | 8.9           |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 5        | 8.9           |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 6        | 8.9           |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H   | 8        | 8.9           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 9        | 8.9           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 9        | 8.9           |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 4        | 8.9           |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 10       | 8.9           |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 14       | 8.9           |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H   | 11       | 8.9           |
| (1,2320) | 1:A:9:PRO:HG2   | 1:A:21:SER:H   | 3        | 8.9           |
| (1,2298) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HZ3 | 1        | 8.9           |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB2 | 1        | 8.9           |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB3 | 1        | 8.9           |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 16       | 8.9           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 20       | 8.9           |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 12       | 8.9           |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 2        | 8.9           |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 2        | 8.9           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 14       | 8.9           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 14       | 8.9           |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 13       | 8.9           |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 11       | 8.9           |
| (1,1725) | 1:A:6:GLN:HG2  | 1:A:27:GLY:HA2 | 20       | 8.9           |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 18       | 8.9           |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 3        | 8.9           |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 2        | 8.9           |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 19       | 8.9           |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 19       | 8.9           |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 12       | 8.9           |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 12       | 8.9           |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 3        | 8.89          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 3        | 8.89          |
| (1,907)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:H   | 14       | 8.89          |
| (1,907)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:H   | 14       | 8.89          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 14       | 8.89          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 14       | 8.89          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 5        | 8.89          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 13       | 8.89          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 10       | 8.89          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 10       | 8.89          |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1 | 20       | 8.89          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 2        | 8.89          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 2        | 8.89          |
| (1,4595) | 1:A:25:TYR:HE1 | 1:A:32:TYR:H   | 2        | 8.89          |
| (1,4595) | 1:A:25:TYR:HE2 | 1:A:32:TYR:H   | 2        | 8.89          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD2 | 5        | 8.89          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD2 | 5        | 8.89          |
| (1,4567) | 1:A:25:TYR:HD1 | 1:A:30:PRO:HD3 | 5        | 8.89          |
| (1,4567) | 1:A:25:TYR:HD2 | 1:A:30:PRO:HD3 | 5        | 8.89          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 5        | 8.89          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 5        | 8.89          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 5        | 8.89          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 5        | 8.89          |
| (1,4385) | 1:A:23:TYR:HB2 | 1:A:35:HIS:HD2 | 20       | 8.89          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 5        | 8.89          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2 | 5        | 8.89          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 5        | 8.89          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 17       | 8.89          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 1        | 8.89          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 1        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 7        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 7        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 7        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 7        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 7        | 8.89          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 7        | 8.89          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 16       | 8.89          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 10       | 8.89          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 10       | 8.89          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 13       | 8.89          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 13       | 8.89          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 2        | 8.89          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 17       | 8.89          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 6        | 8.89          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 8        | 8.89          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 8        | 8.89          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 9        | 8.89          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 9        | 8.89          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 15       | 8.89          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 15       | 8.89          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA  | 3        | 8.89          |
| (1,3141) | 1:A:13:GLY:HA2  | 1:A:28:SER:H   | 2        | 8.89          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2 | 5        | 8.89          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3 | 5        | 8.89          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 17       | 8.89          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 17       | 8.89          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 17       | 8.89          |
| (1,2622) | 1:A:11:TRP:HA   | 1:A:25:TYR:H   | 15       | 8.89          |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H   | 1        | 8.89          |
| (1,2298) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HZ3 | 15       | 8.89          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE1 | 15       | 8.89          |
| (1,2224) | 1:A:9:PRO:HB2   | 1:A:25:TYR:HE2 | 15       | 8.89          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB2 | 11       | 8.89          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB3 | 11       | 8.89          |
| (1,2114) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG2 | 15       | 8.89          |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 14       | 8.89          |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 18       | 8.89          |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 19       | 8.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE2 | 18       | 8.89          |
| (1,1966) | 1:A:7:CYS:H    | 1:A:31:LYS:HE3 | 18       | 8.89          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 1        | 8.89          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 17       | 8.89          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 14       | 8.89          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 17       | 8.89          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 17       | 8.89          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 7        | 8.89          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 3        | 8.89          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 19       | 8.89          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 15       | 8.89          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 10       | 8.89          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 10       | 8.89          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 13       | 8.89          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 16       | 8.89          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 3        | 8.89          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 2        | 8.89          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 1        | 8.89          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 15       | 8.89          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 1        | 8.89          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 1        | 8.89          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 10       | 8.88          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 10       | 8.88          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 2        | 8.88          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 2        | 8.88          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 10       | 8.88          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 10       | 8.88          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 4        | 8.88          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 1        | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 7        | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 7        | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 16       | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 16       | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 19       | 8.88          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 19       | 8.88          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 2        | 8.88          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 2        | 8.88          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB2 | 17       | 8.88          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB3 | 17       | 8.88          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 8        | 8.88          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 8        | 8.88          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 17       | 8.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 17       | 8.88          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 17       | 8.88          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 17       | 8.88          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 7        | 8.88          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 7        | 8.88          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 9        | 8.88          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2 | 9        | 8.88          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3 | 9        | 8.88          |
| (1,4412) | 1:A:23:TYR:HD1 | 1:A:34:ALA:HA  | 17       | 8.88          |
| (1,4412) | 1:A:23:TYR:HD2 | 1:A:34:ALA:HA  | 17       | 8.88          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG2 | 11       | 8.88          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG3 | 11       | 8.88          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG2 | 11       | 8.88          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG3 | 11       | 8.88          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 18       | 8.88          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 18       | 8.88          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 18       | 8.88          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 18       | 8.88          |
| (1,4382) | 1:A:23:TYR:HB2 | 1:A:34:ALA:H   | 13       | 8.88          |
| (1,4382) | 1:A:23:TYR:HB2 | 1:A:34:ALA:H   | 16       | 8.88          |
| (1,4177) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HB3 | 12       | 8.88          |
| (1,3980) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HD2 | 9        | 8.88          |
| (1,3862) | 1:A:19:CYS:HA  | 1:A:31:LYS:HG2 | 16       | 8.88          |
| (1,3756) | 1:A:18:LEU:HG  | 1:A:34:ALA:H   | 1        | 8.88          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 18       | 8.88          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 19       | 8.88          |
| (1,3697) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HD3 | 16       | 8.88          |
| (1,3672) | 1:A:18:LEU:HA  | 1:A:31:LYS:HG3 | 12       | 8.88          |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3 | 18       | 8.88          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1 | 1        | 8.88          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2 | 1        | 8.88          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 1        | 8.88          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG2 | 20       | 8.88          |
| (1,3575) | 1:A:17:GLY:H   | 1:A:30:PRO:HG3 | 20       | 8.88          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 9        | 8.88          |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA2 | 16       | 8.88          |
| (1,3336) | 1:A:15:ARG:HB3 | 1:A:24:GLY:HA3 | 16       | 8.88          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 13       | 8.88          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 13       | 8.88          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 10       | 8.88          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 3        | 8.88          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 4        | 8.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 10       | 8.88          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 10       | 8.88          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA  | 15       | 8.88          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 14       | 8.88          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 5        | 8.88          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 5        | 8.88          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 13       | 8.88          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 13       | 8.88          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 11       | 8.88          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 11       | 8.88          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 20       | 8.88          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 20       | 8.88          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 7        | 8.88          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 7        | 8.88          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 8        | 8.88          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 8        | 8.88          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2 | 20       | 8.88          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3 | 20       | 8.88          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 7        | 8.88          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 1        | 8.88          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 2        | 8.88          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 2        | 8.88          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 19       | 8.88          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 2        | 8.88          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 3        | 8.88          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 3        | 8.88          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 6        | 8.88          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 6        | 8.88          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 18       | 8.88          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 18       | 8.88          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 19       | 8.88          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 19       | 8.88          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 18       | 8.88          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 18       | 8.88          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 20       | 8.88          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 20       | 8.88          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 20       | 8.88          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 7        | 8.88          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 11       | 8.88          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 16       | 8.88          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 19       | 8.88          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 5        | 8.88          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB2  | 4        | 8.88          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB3  | 4        | 8.88          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD2   | 3        | 8.88          |
| (1,1255) | 1:A:4:ASN:HD21  | 1:A:9:PRO:HD3   | 3        | 8.88          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1  | 5        | 8.88          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2  | 5        | 8.88          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1  | 10       | 8.88          |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2  | 10       | 8.88          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG   | 11       | 8.88          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG   | 12       | 8.88          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB2  | 5        | 8.87          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB3  | 5        | 8.87          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H    | 9        | 8.87          |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG   | 4        | 8.87          |
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG   | 2        | 8.87          |
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG   | 15       | 8.87          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 15       | 8.87          |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2  | 17       | 8.87          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2  | 10       | 8.87          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2  | 10       | 8.87          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3  | 10       | 8.87          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3  | 10       | 8.87          |
| (1,4592) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HB2  | 10       | 8.87          |
| (1,4592) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HB2  | 10       | 8.87          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H    | 2        | 8.87          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H    | 2        | 8.87          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1  | 11       | 8.87          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2  | 11       | 8.87          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3  | 11       | 8.87          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 19       | 8.87          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 19       | 8.87          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 20       | 8.87          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 15       | 8.87          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 9        | 8.87          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 13       | 8.87          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 18       | 8.87          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 18       | 8.87          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1  | 7        | 8.87          |
| (1,3806) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HE22 | 15       | 8.87          |
| (1,3806) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HE22 | 15       | 8.87          |
| (1,3806) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HE22 | 15       | 8.87          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 5        | 8.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H   | 6        | 8.87          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 2        | 8.87          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 2        | 8.87          |
| (1,3385) | 1:A:15:ARG:HG2 | 1:A:32:TYR:HA  | 18       | 8.87          |
| (1,3385) | 1:A:15:ARG:HG3 | 1:A:32:TYR:HA  | 18       | 8.87          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 17       | 8.87          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H   | 4        | 8.87          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1 | 5        | 8.87          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2 | 5        | 8.87          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 2        | 8.87          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 2        | 8.87          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 11       | 8.87          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 11       | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 2        | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 2        | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 4        | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 4        | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 11       | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 11       | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 13       | 8.87          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 13       | 8.87          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 2        | 8.87          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 4        | 8.87          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 3        | 8.87          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 14       | 8.87          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 15       | 8.87          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 15       | 8.87          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 18       | 8.87          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 18       | 8.87          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 12       | 8.87          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 13       | 8.87          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 11       | 8.87          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 11       | 8.87          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 11       | 8.87          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 13       | 8.87          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 18       | 8.87          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 17       | 8.87          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 17       | 8.87          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 12       | 8.87          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 12       | 8.87          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 3        | 8.87          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 4        | 8.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 7        | 8.87          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 7        | 8.87          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 16       | 8.87          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 16       | 8.87          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB2 | 19       | 8.87          |
| (1,1610) | 1:A:6:GLN:HB2  | 1:A:32:TYR:HB3 | 19       | 8.87          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 5        | 8.87          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 4        | 8.87          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 4        | 8.87          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 16       | 8.87          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 8        | 8.87          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 12       | 8.87          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 13       | 8.87          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 18       | 8.87          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2  | 20       | 8.87          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 7        | 8.87          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 2        | 8.87          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 3        | 8.87          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 3        | 8.87          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 5        | 8.87          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 5        | 8.87          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 5        | 8.87          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 8        | 8.87          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 8        | 8.87          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 11       | 8.87          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 11       | 8.87          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 11       | 8.87          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 11       | 8.87          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 15       | 8.87          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 15       | 8.87          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 17       | 8.86          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 15       | 8.86          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 11       | 8.86          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 15       | 8.86          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 16       | 8.86          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 16       | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 5        | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 5        | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 8        | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 8        | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 14       | 8.86          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 14       | 8.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG  | 10       | 8.86          |
| (1,4629) | 1:A:26:CYS:H    | 1:A:35:HIS:H   | 20       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 13       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 13       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 13       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 13       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 13       | 8.86          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 13       | 8.86          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 13       | 8.86          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 13       | 8.86          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 13       | 8.86          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 13       | 8.86          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 18       | 8.86          |
| (1,4313) | 1:A:22:GLN:HE22 | 1:A:29:GLY:H   | 15       | 8.86          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 10       | 8.86          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 10       | 8.86          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 5        | 8.86          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 1        | 8.86          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 2        | 8.86          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 4        | 8.86          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 5        | 8.86          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 8        | 8.86          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 4        | 8.86          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 16       | 8.86          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 19       | 8.86          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 20       | 8.86          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 3        | 8.86          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 3        | 8.86          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 3        | 8.86          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 8        | 8.86          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 8        | 8.86          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 4        | 8.86          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 4        | 8.86          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 13       | 8.86          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 13       | 8.86          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 13       | 8.86          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 7        | 8.86          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 1        | 8.86          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 1        | 8.86          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 6        | 8.86          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 6        | 8.86          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 8        | 8.86          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 8        | 8.86          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 10       | 8.86          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H   | 2        | 8.86          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 11       | 8.86          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 11       | 8.86          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 5        | 8.86          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 10       | 8.86          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 3        | 8.86          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 3        | 8.86          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 15       | 8.86          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 6        | 8.86          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 13       | 8.86          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 19       | 8.86          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 19       | 8.86          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 7        | 8.86          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 5        | 8.86          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 7        | 8.86          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2 | 8        | 8.86          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3 | 8        | 8.86          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 2        | 8.86          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 17       | 8.86          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 13       | 8.86          |
| (1,1649) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HG2 | 15       | 8.86          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 2        | 8.86          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 2        | 8.86          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 2        | 8.86          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 10       | 8.86          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 10       | 8.86          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 14       | 8.86          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 5        | 8.86          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 16       | 8.85          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 16       | 8.85          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 5        | 8.85          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 5        | 8.85          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 17       | 8.85          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 17       | 8.85          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 3        | 8.85          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 12       | 8.85          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 12       | 8.85          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG2  | 18       | 8.85          |
| (1,683)  | 1:A:2:GLY:HA2  | 1:A:9:PRO:HG3  | 18       | 8.85          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 4        | 8.85          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 18       | 8.85          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 5        | 8.85          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 11       | 8.85          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 17       | 8.85          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 10       | 8.85          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 10       | 8.85          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 10       | 8.85          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 10       | 8.85          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H   | 10       | 8.85          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 1        | 8.85          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 1        | 8.85          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 1        | 8.85          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 18       | 8.85          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 18       | 8.85          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 11       | 8.85          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 11       | 8.85          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 16       | 8.85          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 16       | 8.85          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 16       | 8.85          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 16       | 8.85          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 17       | 8.85          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 17       | 8.85          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 11       | 8.85          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 11       | 8.85          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 19       | 8.85          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 19       | 8.85          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 11       | 8.85          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 7        | 8.85          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 1        | 8.85          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 11       | 8.85          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 5        | 8.85          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 5        | 8.85          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 15       | 8.85          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 15       | 8.85          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 14       | 8.85          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 14       | 8.85          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 9        | 8.85          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 9        | 8.85          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 6        | 8.85          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 16       | 8.85          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 16       | 8.85          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 16       | 8.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3688) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HE1 | 11       | 8.85          |
| (1,3688) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HE2 | 11       | 8.85          |
| (1,3553) | 1:A:17:GLY:H   | 1:A:21:SER:H   | 17       | 8.85          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 20       | 8.85          |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 19       | 8.85          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 20       | 8.85          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 20       | 8.85          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 6        | 8.85          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 2        | 8.85          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 4        | 8.85          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 6        | 8.85          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 14       | 8.85          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 8        | 8.85          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 8        | 8.85          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 5        | 8.85          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 10       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 7        | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 7        | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 16       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 16       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 18       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 18       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 19       | 8.85          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 19       | 8.85          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 1        | 8.85          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H   | 11       | 8.85          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA  | 1        | 8.85          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 17       | 8.85          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 17       | 8.85          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 12       | 8.85          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 12       | 8.85          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 8        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 8        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 8        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 8        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 9        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 9        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 9        | 8.85          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 9        | 8.85          |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE  | 20       | 8.85          |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE  | 20       | 8.85          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 7        | 8.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 9        | 8.85          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 20       | 8.85          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 12       | 8.85          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 5        | 8.85          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 5        | 8.85          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 16       | 8.85          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB2 | 16       | 8.85          |
| (1,2106) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HB3 | 16       | 8.85          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 4        | 8.85          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 4        | 8.85          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 11       | 8.85          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 15       | 8.85          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 17       | 8.85          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 3        | 8.85          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 6        | 8.85          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 6        | 8.85          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 3        | 8.85          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 4        | 8.85          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H   | 7        | 8.85          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 8        | 8.85          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 8        | 8.85          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 14       | 8.85          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 20       | 8.85          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 18       | 8.85          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 17       | 8.85          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 17       | 8.85          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 10       | 8.85          |
| (1,928)  | 1:A:3:PRO:HG2  | 1:A:24:GLY:HA2 | 6        | 8.84          |
| (1,928)  | 1:A:3:PRO:HG3  | 1:A:24:GLY:HA2 | 6        | 8.84          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 2        | 8.84          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 3        | 8.84          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 11       | 8.84          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 8        | 8.84          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 3        | 8.84          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 4        | 8.84          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 17       | 8.84          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 19       | 8.84          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 19       | 8.84          |
| (1,4562) | 1:A:25:TYR:HD1 | 1:A:29:GLY:H   | 20       | 8.84          |
| (1,4562) | 1:A:25:TYR:HD2 | 1:A:29:GLY:H   | 20       | 8.84          |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H   | 18       | 8.84          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 3        | 8.84          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 3        | 8.84          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 20       | 8.84          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 20       | 8.84          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 20       | 8.84          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 20       | 8.84          |
| (1,4388) | 1:A:23:TYR:HB3 | 1:A:28:SER:H   | 14       | 8.84          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 3        | 8.84          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2 | 3        | 8.84          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB3 | 3        | 8.84          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG2 | 6        | 8.84          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG3 | 6        | 8.84          |
| (1,4269) | 1:A:22:GLN:HG3 | 1:A:34:ALA:HA  | 3        | 8.84          |
| (1,4234) | 1:A:22:GLN:HB3 | 1:A:30:PRO:HA  | 5        | 8.84          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA2 | 14       | 8.84          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA3 | 14       | 8.84          |
| (1,4177) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HB3 | 20       | 8.84          |
| (1,4175) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HB2 | 5        | 8.84          |
| (1,4120) | 1:A:22:GLN:H   | 1:A:30:PRO:HD3 | 18       | 8.84          |
| (1,4120) | 1:A:22:GLN:H   | 1:A:30:PRO:HD3 | 19       | 8.84          |
| (1,4120) | 1:A:22:GLN:H   | 1:A:30:PRO:HD3 | 20       | 8.84          |
| (1,4081) | 1:A:21:SER:HG  | 1:A:30:PRO:HB2 | 6        | 8.84          |
| (1,4081) | 1:A:21:SER:HG  | 1:A:30:PRO:HB3 | 6        | 8.84          |
| (1,3969) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HA  | 6        | 8.84          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1 | 18       | 8.84          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2 | 18       | 8.84          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 15       | 8.84          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1 | 11       | 8.84          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2 | 11       | 8.84          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 11       | 8.84          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE1 | 11       | 8.84          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE2 | 11       | 8.84          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 18       | 8.84          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 19       | 8.84          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H   | 9        | 8.84          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 9        | 8.84          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 9        | 8.84          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 8        | 8.84          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 8        | 8.84          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2 | 5        | 8.84          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3 | 5        | 8.84          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE1 | 1        | 8.84          |
| (1,3270) | 1:A:15:ARG:H   | 1:A:25:TYR:HE2 | 1        | 8.84          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 5        | 8.84          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 6        | 8.84          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA  | 1        | 8.84          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA  | 11       | 8.84          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 12       | 8.84          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 12       | 8.84          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 17       | 8.84          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 17       | 8.84          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 5        | 8.84          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 5        | 8.84          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD1 | 17       | 8.84          |
| (1,2656) | 1:A:11:TRP:HB2 | 1:A:23:TYR:HD2 | 17       | 8.84          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 13       | 8.84          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 7        | 8.84          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 7        | 8.84          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 14       | 8.84          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 14       | 8.84          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 11       | 8.84          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 11       | 8.84          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 20       | 8.84          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 20       | 8.84          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 16       | 8.84          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 16       | 8.84          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 4        | 8.84          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 4        | 8.84          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 9        | 8.84          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 1        | 8.84          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 12       | 8.84          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 11       | 8.84          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 11       | 8.84          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 4        | 8.84          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 4        | 8.84          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 1        | 8.84          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 17       | 8.83          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 17       | 8.83          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 1        | 8.83          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 1        | 8.83          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3 | 2        | 8.83          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 11       | 8.83          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 11       | 8.83          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 11       | 8.83          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 11       | 8.83          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB2 | 5        | 8.83          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB2 | 5        | 8.83          |
| (1,566)  | 1:A:1:SER:HB2   | 1:A:22:GLN:HB3 | 5        | 8.83          |
| (1,566)  | 1:A:1:SER:HB3   | 1:A:22:GLN:HB3 | 5        | 8.83          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1 | 18       | 8.83          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1 | 18       | 8.83          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 11       | 8.83          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 11       | 8.83          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 3        | 8.83          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 3        | 8.83          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 18       | 8.83          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 18       | 8.83          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 3        | 8.83          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 1        | 8.83          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 1        | 8.83          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 1        | 8.83          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 10       | 8.83          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 6        | 8.83          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 8        | 8.83          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 4        | 8.83          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 1        | 8.83          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 2        | 8.83          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 11       | 8.83          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 18       | 8.83          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 19       | 8.83          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 16       | 8.83          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 10       | 8.83          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 10       | 8.83          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 1        | 8.83          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 1        | 8.83          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 12       | 8.83          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 10       | 8.83          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 1        | 8.83          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 6        | 8.83          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 3        | 8.83          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 3        | 8.83          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 10       | 8.83          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H   | 3        | 8.83          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1 | 1        | 8.83          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 1        | 8.83          |
| (1,3542) | 1:A:16:GLY:HA3 | 1:A:32:TYR:H   | 5        | 8.83          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 14       | 8.83          |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 12       | 8.83          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 3        | 8.83          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 18       | 8.83          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 18       | 8.83          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H   | 17       | 8.83          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 6        | 8.83          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 15       | 8.83          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 15       | 8.83          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 2        | 8.83          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 3        | 8.83          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 2        | 8.83          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 4        | 8.83          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 2        | 8.83          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 4        | 8.83          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 20       | 8.83          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 20       | 8.83          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 13       | 8.83          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB2 | 17       | 8.83          |
| (1,2745) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HB3 | 17       | 8.83          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 8        | 8.83          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 8        | 8.83          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 8        | 8.83          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 8        | 8.83          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 8        | 8.83          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 8        | 8.83          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 7        | 8.83          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 7        | 8.83          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 7        | 8.83          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 7        | 8.83          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 19       | 8.83          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 18       | 8.83          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 19       | 8.83          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 4        | 8.83          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 4        | 8.83          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 16       | 8.83          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 18       | 8.83          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 19       | 8.83          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2048) | 1:A:8:GLY:H    | 1:A:22:GLN:HG2 | 17       | 8.83          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 12       | 8.83          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 1        | 8.83          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 12       | 8.83          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 12       | 8.83          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 3        | 8.83          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 3        | 8.83          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG  | 7        | 8.83          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 14       | 8.83          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 14       | 8.83          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 6        | 8.83          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 13       | 8.83          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 13       | 8.82          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 13       | 8.82          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 4        | 8.82          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 4        | 8.82          |
| (1,777)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HD1 | 9        | 8.82          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 18       | 8.82          |
| (1,763)  | 1:A:3:PRO:HA   | 1:A:27:GLY:H   | 20       | 8.82          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 17       | 8.82          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 17       | 8.82          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 3        | 8.82          |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 14       | 8.82          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2 | 6        | 8.82          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA  | 6        | 8.82          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA  | 6        | 8.82          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 6        | 8.82          |
| (1,4514) | 1:A:25:TYR:H   | 1:A:31:LYS:H   | 3        | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 18       | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2 | 18       | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3 | 18       | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 19       | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2 | 19       | 8.82          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3 | 19       | 8.82          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG2 | 1        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG3 | 1        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG2 | 1        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG3 | 1        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG2 | 7        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG3 | 7        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG2 | 7        | 8.82          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG3 | 7        | 8.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4392) | 1:A:23:TYR:HB3  | 1:A:35:HIS:HE1 | 7        | 8.82          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 16       | 8.82          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 8        | 8.82          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 19       | 8.82          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 3        | 8.82          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 20       | 8.82          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 17       | 8.82          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 3        | 8.82          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 14       | 8.82          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 11       | 8.82          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 11       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 19       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 19       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 19       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 20       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 20       | 8.82          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 20       | 8.82          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 9        | 8.82          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 12       | 8.82          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 5        | 8.82          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 5        | 8.82          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 16       | 8.82          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 16       | 8.82          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 16       | 8.82          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 5        | 8.82          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 1        | 8.82          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 11       | 8.82          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 3        | 8.82          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 7        | 8.82          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 10       | 8.82          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 10       | 8.82          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD1 | 13       | 8.82          |
| (1,3338) | 1:A:15:ARG:HB3  | 1:A:25:TYR:HD2 | 13       | 8.82          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 6        | 8.82          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 6        | 8.82          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 10       | 8.82          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 10       | 8.82          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 13       | 8.82          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 13       | 8.82          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 5        | 8.82          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2 | 10       | 8.82          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3 | 10       | 8.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H    | 10       | 8.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 10       | 8.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 10       | 8.82          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2  | 8        | 8.82          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 8        | 8.82          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2  | 9        | 8.82          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 9        | 8.82          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2  | 13       | 8.82          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3  | 13       | 8.82          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA   | 10       | 8.82          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 11       | 8.82          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 11       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 15       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 15       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 15       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 15       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 15       | 8.82          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 15       | 8.82          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 12       | 8.82          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 12       | 8.82          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 12       | 8.82          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 12       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 9        | 8.82          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 9        | 8.82          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 16       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 16       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 18       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 18       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 19       | 8.82          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 19       | 8.82          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 18       | 8.82          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 7        | 8.82          |
| (1,2298) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ3  | 13       | 8.82          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 13       | 8.82          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 13       | 8.82          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 18       | 8.82          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 18       | 8.82          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H    | 15       | 8.82          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 18       | 8.82          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 18       | 8.82          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 6        | 8.82          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 6        | 8.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 13       | 8.82          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 13       | 8.82          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 17       | 8.82          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 17       | 8.82          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2  | 16       | 8.82          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3  | 16       | 8.82          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 14       | 8.82          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 14       | 8.82          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 2        | 8.82          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 2        | 8.82          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 2        | 8.82          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 2        | 8.82          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 17       | 8.82          |
| (1,1504) | 1:A:6:GLN:H    | 1:A:9:PRO:HB2   | 9        | 8.82          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2  | 16       | 8.82          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 2        | 8.82          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1  | 13       | 8.81          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG   | 12       | 8.81          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 5        | 8.81          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2  | 7        | 8.81          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 3        | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 14       | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 14       | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 14       | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 16       | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 16       | 8.81          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 16       | 8.81          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2  | 10       | 8.81          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE2  | 16       | 8.81          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE3  | 16       | 8.81          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE2  | 16       | 8.81          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE3  | 16       | 8.81          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2  | 3        | 8.81          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3  | 3        | 8.81          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2  | 6        | 8.81          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3  | 6        | 8.81          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1  | 20       | 8.81          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2  | 20       | 8.81          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3  | 20       | 8.81          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG2  | 17       | 8.81          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG3  | 17       | 8.81          |
| (1,4424) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HG2  | 17       | 8.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 17       | 8.81          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 6        | 8.81          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 6        | 8.81          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 6        | 8.81          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 6        | 8.81          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 10       | 8.81          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 10       | 8.81          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 6        | 8.81          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 6        | 8.81          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 11       | 8.81          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 12       | 8.81          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 7        | 8.81          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 1        | 8.81          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 13       | 8.81          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 5        | 8.81          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 6        | 8.81          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 10       | 8.81          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 13       | 8.81          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 13       | 8.81          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 9        | 8.81          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 9        | 8.81          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 15       | 8.81          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 18       | 8.81          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 18       | 8.81          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 18       | 8.81          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 3        | 8.81          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 16       | 8.81          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 6        | 8.81          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 1        | 8.81          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 1        | 8.81          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 1        | 8.81          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 3        | 8.81          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 3        | 8.81          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 6        | 8.81          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 1        | 8.81          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 7        | 8.81          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 7        | 8.81          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 9        | 8.81          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 9        | 8.81          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H   | 6        | 8.81          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 3        | 8.81          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 3        | 8.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H    | 5        | 8.81          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 3        | 8.81          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1  | 2        | 8.81          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2  | 2        | 8.81          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 4        | 8.81          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 5        | 8.81          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1  | 7        | 8.81          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2  | 7        | 8.81          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H    | 14       | 8.81          |
| (1,2726) | 1:A:11:TRP:HD1 | 1:A:15:ARG:H    | 13       | 8.81          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 13       | 8.81          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 1        | 8.81          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 1        | 8.81          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 20       | 8.81          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 20       | 8.81          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H    | 8        | 8.81          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1  | 1        | 8.81          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2  | 1        | 8.81          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 19       | 8.81          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 19       | 8.81          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 20       | 8.81          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 20       | 8.81          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 14       | 8.81          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 4        | 8.81          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 4        | 8.81          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 14       | 8.81          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H    | 14       | 8.81          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 4        | 8.81          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 4        | 8.81          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA    | 4        | 8.81          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 11       | 8.81          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 5        | 8.81          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 5        | 8.81          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1  | 5        | 8.81          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2  | 5        | 8.81          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H    | 10       | 8.81          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 2        | 8.81          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 9        | 8.81          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 6        | 8.81          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 20       | 8.81          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 20       | 8.81          |
| (1,1354) | 1:A:4:ASN:HD22 | 1:A:21:SER:HG   | 19       | 8.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA2 | 1        | 8.81          |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA3 | 1        | 8.81          |
| (1,1227) | 1:A:4:ASN:HB3   | 1:A:28:SER:H   | 6        | 8.81          |
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H   | 7        | 8.81          |
| (1,1199) | 1:A:4:ASN:HB3   | 1:A:15:ARG:H   | 12       | 8.81          |
| (1,840)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HD1 | 2        | 8.8           |
| (1,840)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HD1 | 3        | 8.8           |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 19       | 8.8           |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE  | 9        | 8.8           |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 9        | 8.8           |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 9        | 8.8           |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 16       | 8.8           |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 16       | 8.8           |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 6        | 8.8           |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 18       | 8.8           |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 18       | 8.8           |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 4        | 8.8           |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 12       | 8.8           |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 12       | 8.8           |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 12       | 8.8           |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 12       | 8.8           |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 3        | 8.8           |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 7        | 8.8           |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 3        | 8.8           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 18       | 8.8           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 18       | 8.8           |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 2        | 8.8           |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 2        | 8.8           |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 14       | 8.8           |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 7        | 8.8           |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 7        | 8.8           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 2        | 8.8           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 4        | 8.8           |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 9        | 8.8           |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 9        | 8.8           |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 18       | 8.8           |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 18       | 8.8           |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 1        | 8.8           |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 1        | 8.8           |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 20       | 8.8           |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 9        | 8.8           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 18       | 8.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3688) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HE2  | 18       | 8.8           |
| (1,3635) | 1:A:17:GLY:HA3 | 1:A:31:LYS:HB3  | 20       | 8.8           |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE1  | 14       | 8.8           |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE2  | 14       | 8.8           |
| (1,3573) | 1:A:17:GLY:H   | 1:A:30:PRO:HA   | 4        | 8.8           |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2  | 12       | 8.8           |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2  | 12       | 8.8           |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3  | 12       | 8.8           |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3  | 12       | 8.8           |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H    | 12       | 8.8           |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H    | 12       | 8.8           |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1  | 10       | 8.8           |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2  | 10       | 8.8           |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1  | 11       | 8.8           |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2  | 11       | 8.8           |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG   | 12       | 8.8           |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG   | 3        | 8.8           |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2  | 15       | 8.8           |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 15       | 8.8           |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 12       | 8.8           |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 18       | 8.8           |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 19       | 8.8           |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA   | 2        | 8.8           |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA   | 14       | 8.8           |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2  | 14       | 8.8           |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3  | 14       | 8.8           |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H    | 3        | 8.8           |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 11       | 8.8           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 15       | 8.8           |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 15       | 8.8           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 15       | 8.8           |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 15       | 8.8           |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 8        | 8.8           |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 8        | 8.8           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 18       | 8.8           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 18       | 8.8           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 18       | 8.8           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 18       | 8.8           |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 10       | 8.8           |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 10       | 8.8           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1  | 3        | 8.8           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2  | 3        | 8.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1  | 6        | 8.8           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2  | 6        | 8.8           |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 18       | 8.8           |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 19       | 8.8           |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 20       | 8.8           |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 18       | 8.8           |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 18       | 8.8           |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 12       | 8.8           |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 15       | 8.8           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 3        | 8.8           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 3        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 6        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 6        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 6        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 6        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2  | 6        | 8.8           |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3  | 6        | 8.8           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2  | 4        | 8.8           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3  | 4        | 8.8           |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 4        | 8.8           |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 12       | 8.8           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 2        | 8.8           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 2        | 8.8           |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2  | 18       | 8.8           |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3  | 18       | 8.8           |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2  | 19       | 8.8           |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3  | 19       | 8.8           |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 11       | 8.8           |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 11       | 8.8           |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H    | 2        | 8.8           |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 5        | 8.8           |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2  | 1        | 8.8           |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 18       | 8.8           |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 19       | 8.8           |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 5        | 8.8           |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 5        | 8.8           |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2  | 13       | 8.8           |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3  | 13       | 8.8           |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2  | 3        | 8.79          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2  | 3        | 8.79          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 2        | 8.79          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 11       | 8.79          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H    | 9        | 8.79          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H    | 9        | 8.79          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2  | 12       | 8.79          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3  | 12       | 8.79          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 12       | 8.79          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 12       | 8.79          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 17       | 8.79          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 17       | 8.79          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 16       | 8.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1  | 9        | 8.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2  | 9        | 8.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3  | 9        | 8.79          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H    | 3        | 8.79          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 9        | 8.79          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 9        | 8.79          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 4        | 8.79          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3  | 11       | 8.79          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2  | 1        | 8.79          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2  | 12       | 8.79          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3  | 12       | 8.79          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2  | 3        | 8.79          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3  | 3        | 8.79          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3  | 14       | 8.79          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA   | 10       | 8.79          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1  | 7        | 8.79          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2  | 7        | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 6        | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 6        | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 11       | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 11       | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 19       | 8.79          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 19       | 8.79          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 4        | 8.79          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 4        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 3        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 3        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 3        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 3        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 3        | 8.79          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 3        | 8.79          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H    | 17       | 8.79          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 19       | 8.79          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3688) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HE2 | 19       | 8.79          |
| (1,3666) | 1:A:18:LEU:HA  | 1:A:22:GLN:HG3 | 1        | 8.79          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 1        | 8.79          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 1        | 8.79          |
| (1,3648) | 1:A:18:LEU:H   | 1:A:25:TYR:HB2 | 4        | 8.79          |
| (1,3573) | 1:A:17:GLY:H   | 1:A:30:PRO:HA  | 2        | 8.79          |
| (1,3553) | 1:A:17:GLY:H   | 1:A:21:SER:H   | 13       | 8.79          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1 | 11       | 8.79          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 11       | 8.79          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 15       | 8.79          |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H   | 2        | 8.79          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H   | 2        | 8.79          |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H   | 10       | 8.79          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H   | 10       | 8.79          |
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3 | 12       | 8.79          |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3 | 12       | 8.79          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 6        | 8.79          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 1        | 8.79          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 11       | 8.79          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 5        | 8.79          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 6        | 8.79          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 3        | 8.79          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 10       | 8.79          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 16       | 8.79          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 16       | 8.79          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 16       | 8.79          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 16       | 8.79          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 16       | 8.79          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 16       | 8.79          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1 | 2        | 8.79          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2 | 2        | 8.79          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 15       | 8.79          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 20       | 8.79          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 14       | 8.79          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 8        | 8.79          |
| (1,2172) | 1:A:9:PRO:HA   | 1:A:26:CYS:H   | 17       | 8.79          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 10       | 8.79          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 10       | 8.79          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2 | 12       | 8.79          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3 | 12       | 8.79          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 2        | 8.79          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 10       | 8.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1895) | 1:A:6:GLN:HE22  | 1:A:23:TYR:HA  | 14       | 8.79          |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB2  | 19       | 8.79          |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB3  | 19       | 8.79          |
| (1,1755) | 1:A:6:GLN:HG3   | 1:A:19:CYS:HA  | 15       | 8.79          |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE1 | 10       | 8.79          |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE2 | 10       | 8.79          |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE1 | 17       | 8.79          |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE2 | 17       | 8.79          |
| (1,1639) | 1:A:6:GLN:HB3   | 1:A:19:CYS:H   | 5        | 8.79          |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB2 | 20       | 8.79          |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB3 | 20       | 8.79          |
| (1,1523) | 1:A:6:GLN:H     | 1:A:22:GLN:H   | 10       | 8.79          |
| (1,1432) | 1:A:5:GLY:H     | 1:A:23:TYR:HA  | 6        | 8.79          |
| (1,1432) | 1:A:5:GLY:H     | 1:A:23:TYR:HA  | 14       | 8.79          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 2        | 8.79          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 16       | 8.79          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 16       | 8.79          |
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1 | 15       | 8.78          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 16       | 8.78          |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG  | 2        | 8.78          |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG  | 5        | 8.78          |
| (1,687)  | 1:A:2:GLY:HA2   | 1:A:18:LEU:HB2 | 9        | 8.78          |
| (1,627)  | 1:A:2:GLY:H     | 1:A:18:LEU:HG  | 13       | 8.78          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 12       | 8.78          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 12       | 8.78          |
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 4        | 8.78          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 15       | 8.78          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 15       | 8.78          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 12       | 8.78          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 12       | 8.78          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 4        | 8.78          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 5        | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 7        | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 7        | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 7        | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 16       | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 16       | 8.78          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 16       | 8.78          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 16       | 8.78          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 16       | 8.78          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 6        | 8.78          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 14       | 8.78          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 14       | 8.78          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 11       | 8.78          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 20       | 8.78          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 20       | 8.78          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 2        | 8.78          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 6        | 8.78          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 6        | 8.78          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 17       | 8.78          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 9        | 8.78          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 11       | 8.78          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 17       | 8.78          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 4        | 8.78          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 4        | 8.78          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 4        | 8.78          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 3        | 8.78          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 4        | 8.78          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 4        | 8.78          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 4        | 8.78          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 19       | 8.78          |
| (1,3750) | 1:A:18:LEU:HG   | 1:A:31:LYS:H   | 5        | 8.78          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 15       | 8.78          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 11       | 8.78          |
| (1,3635) | 1:A:17:GLY:HA3  | 1:A:31:LYS:HB3 | 19       | 8.78          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2 | 18       | 8.78          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3 | 18       | 8.78          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2 | 19       | 8.78          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3 | 19       | 8.78          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 6        | 8.78          |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 10       | 8.78          |
| (1,3542) | 1:A:16:GLY:HA3  | 1:A:32:TYR:H   | 17       | 8.78          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 12       | 8.78          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 12       | 8.78          |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 13       | 8.78          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 5        | 8.78          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 5        | 8.78          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 17       | 8.78          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 17       | 8.78          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 10       | 8.78          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 2        | 8.78          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2 | 2        | 8.78          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA  | 13       | 8.78          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 3        | 8.78          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2  | 3        | 8.78          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1  | 13       | 8.78          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2  | 13       | 8.78          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA   | 6        | 8.78          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H    | 7        | 8.78          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H    | 4        | 8.78          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H    | 6        | 8.78          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H    | 14       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 13       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 13       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 13       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 13       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 13       | 8.78          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 13       | 8.78          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD1  | 1        | 8.78          |
| (1,2399) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HD2  | 1        | 8.78          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 9        | 8.78          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 13       | 8.78          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 16       | 8.78          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 15       | 8.78          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 12       | 8.78          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 12       | 8.78          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H    | 3        | 8.78          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H    | 4        | 8.78          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 18       | 8.78          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 18       | 8.78          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 9        | 8.78          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 9        | 8.78          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 4        | 8.78          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 4        | 8.78          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 9        | 8.78          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 9        | 8.78          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 5        | 8.78          |
| (1,1523) | 1:A:6:GLN:H    | 1:A:22:GLN:H    | 2        | 8.78          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2  | 7        | 8.78          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3  | 7        | 8.78          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA   | 3        | 8.78          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 9        | 8.78          |
| (1,1145) | 1:A:4:ASN:HB2  | 1:A:19:CYS:H    | 20       | 8.78          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H    | 20       | 8.78          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 4        | 8.77          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 4        | 8.77          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG2   | 9        | 8.77          |
| (1,683)  | 1:A:2:GLY:HA2   | 1:A:9:PRO:HG3   | 9        | 8.77          |
| (1,637)  | 1:A:2:GLY:H     | 1:A:23:TYR:HB3  | 10       | 8.77          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 18       | 8.77          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H    | 1        | 8.77          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H    | 1        | 8.77          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H    | 14       | 8.77          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H    | 14       | 8.77          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H    | 3        | 8.77          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2  | 13       | 8.77          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H    | 18       | 8.77          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H    | 19       | 8.77          |
| (1,4509) | 1:A:25:TYR:H    | 1:A:29:GLY:H    | 20       | 8.77          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 13       | 8.77          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 13       | 8.77          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 13       | 8.77          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 13       | 8.77          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H    | 12       | 8.77          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 14       | 8.77          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2  | 8        | 8.77          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3  | 8        | 8.77          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 7        | 8.77          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 8        | 8.77          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 14       | 8.77          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H    | 15       | 8.77          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2  | 5        | 8.77          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3  | 5        | 8.77          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2  | 14       | 8.77          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3  | 14       | 8.77          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2  | 6        | 8.77          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3  | 6        | 8.77          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA   | 5        | 8.77          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1  | 17       | 8.77          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2  | 17       | 8.77          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 9        | 8.77          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 9        | 8.77          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 3        | 8.77          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 3        | 8.77          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H    | 18       | 8.77          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA   | 7        | 8.77          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H    | 4        | 8.77          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 15       | 8.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2 | 15       | 8.77          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 15       | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 8        | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 8        | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 9        | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 9        | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 13       | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 13       | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 17       | 8.77          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 17       | 8.77          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE1 | 12       | 8.77          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE2 | 12       | 8.77          |
| (1,3508) | 1:A:16:GLY:HA2 | 1:A:26:CYS:H   | 1        | 8.77          |
| (1,3508) | 1:A:16:GLY:HA2 | 1:A:26:CYS:H   | 13       | 8.77          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H   | 1        | 8.77          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB1 | 10       | 8.77          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB2 | 10       | 8.77          |
| (1,3489) | 1:A:16:GLY:H   | 1:A:34:ALA:HB3 | 10       | 8.77          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 13       | 8.77          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB2 | 6        | 8.77          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB3 | 6        | 8.77          |
| (1,3273) | 1:A:15:ARG:H   | 1:A:29:GLY:HA3 | 16       | 8.77          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 15       | 8.77          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 15       | 8.77          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 4        | 8.77          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 10       | 8.77          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 5        | 8.77          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 16       | 8.77          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 16       | 8.77          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 2        | 8.77          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 6        | 8.77          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 6        | 8.77          |
| (1,2466) | 1:A:10:GLY:H   | 1:A:21:SER:H   | 17       | 8.77          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 12       | 8.77          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 12       | 8.77          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 8        | 8.77          |
| (1,2391) | 1:A:9:PRO:HG3  | 1:A:23:TYR:HA  | 14       | 8.77          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1 | 2        | 8.77          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2 | 2        | 8.77          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 3        | 8.77          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 3        | 8.77          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 3        | 8.77          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 7        | 8.77          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 7        | 8.77          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 10       | 8.77          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 10       | 8.77          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 15       | 8.77          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 15       | 8.77          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2  | 7        | 8.77          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3  | 7        | 8.77          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1  | 2        | 8.77          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2  | 2        | 8.77          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 16       | 8.77          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 16       | 8.77          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA   | 4        | 8.77          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 17       | 8.77          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 10       | 8.77          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H    | 20       | 8.77          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2  | 12       | 8.77          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3  | 12       | 8.77          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 15       | 8.77          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 15       | 8.77          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 3        | 8.76          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 3        | 8.76          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2  | 19       | 8.76          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3  | 19       | 8.76          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2  | 19       | 8.76          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3  | 19       | 8.76          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1  | 11       | 8.76          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1  | 13       | 8.76          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 15       | 8.76          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3  | 5        | 8.76          |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 6        | 8.76          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 10       | 8.76          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 10       | 8.76          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 10       | 8.76          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3  | 12       | 8.76          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2  | 11       | 8.76          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2  | 17       | 8.76          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H    | 7        | 8.76          |
| (1,4483) | 1:A:24:GLY:HA2 | 1:A:34:ALA:H    | 16       | 8.76          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1  | 6        | 8.76          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2  | 6        | 8.76          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3  | 6        | 8.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4438) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HB2 | 14       | 8.76          |
| (1,4438) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HB2 | 14       | 8.76          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 11       | 8.76          |
| (1,4186) | 1:A:22:GLN:HG2  | 1:A:29:GLY:H   | 16       | 8.76          |
| (1,4175) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB2 | 20       | 8.76          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 1        | 8.76          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 14       | 8.76          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 15       | 8.76          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 15       | 8.76          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 16       | 8.76          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 16       | 8.76          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 16       | 8.76          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 3        | 8.76          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 3        | 8.76          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 8        | 8.76          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 8        | 8.76          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 8        | 8.76          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 4        | 8.76          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 17       | 8.76          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 17       | 8.76          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 20       | 8.76          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 20       | 8.76          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 5        | 8.76          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 5        | 8.76          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 12       | 8.76          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 12       | 8.76          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 9        | 8.76          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 10       | 8.76          |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 14       | 8.76          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 10       | 8.76          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 10       | 8.76          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 6        | 8.76          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 6        | 8.76          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 4        | 8.76          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 4        | 8.76          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 17       | 8.76          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 17       | 8.76          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA  | 15       | 8.76          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 12       | 8.76          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 12       | 8.76          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 4        | 8.76          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2 | 4        | 8.76          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H    | 13       | 8.76          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG   | 8        | 8.76          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA   | 2        | 8.76          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H    | 5        | 8.76          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 15       | 8.76          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 5        | 8.76          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 5        | 8.76          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1  | 10       | 8.76          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2  | 10       | 8.76          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3  | 10       | 8.76          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1  | 10       | 8.76          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2  | 10       | 8.76          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3  | 10       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1  | 1        | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2  | 1        | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1  | 1        | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2  | 1        | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1  | 13       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2  | 13       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1  | 13       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2  | 13       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1  | 20       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2  | 20       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1  | 20       | 8.76          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2  | 20       | 8.76          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 9        | 8.76          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 9        | 8.76          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 20       | 8.76          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 9        | 8.76          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 13       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 11       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 11       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 13       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 13       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 15       | 8.76          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 15       | 8.76          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1  | 10       | 8.76          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2  | 10       | 8.76          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H    | 1        | 8.76          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H    | 11       | 8.76          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 15       | 8.76          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 15       | 8.76          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 10       | 8.76          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 10       | 8.76          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 14       | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 8        | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 8        | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 12       | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 12       | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 16       | 8.76          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 16       | 8.76          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 5        | 8.76          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 5        | 8.76          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 8        | 8.76          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 8        | 8.76          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 10       | 8.76          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 10       | 8.76          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 14       | 8.76          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 14       | 8.76          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 12       | 8.76          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 15       | 8.76          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 17       | 8.76          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 18       | 8.76          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 18       | 8.76          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2 | 14       | 8.76          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3 | 14       | 8.76          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 19       | 8.76          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 6        | 8.75          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 10       | 8.75          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 1        | 8.75          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 1        | 8.75          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 16       | 8.75          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 16       | 8.75          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 5        | 8.75          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 1        | 8.75          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 2        | 8.75          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 15       | 8.75          |
| (1,4509) | 1:A:25:TYR:H   | 1:A:29:GLY:H   | 16       | 8.75          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 19       | 8.75          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 19       | 8.75          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG2 | 17       | 8.75          |
| (1,4401) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HG3 | 17       | 8.75          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG2 | 17       | 8.75          |
| (1,4401) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HG3 | 17       | 8.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 6        | 8.75          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 6        | 8.75          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 6        | 8.75          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 6        | 8.75          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 19       | 8.75          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 19       | 8.75          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 19       | 8.75          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 19       | 8.75          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 15       | 8.75          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 7        | 8.75          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 16       | 8.75          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 16       | 8.75          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 7        | 8.75          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 5        | 8.75          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 13       | 8.75          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 9        | 8.75          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 11       | 8.75          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 11       | 8.75          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 10       | 8.75          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 10       | 8.75          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 12       | 8.75          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 13       | 8.75          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 6        | 8.75          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 6        | 8.75          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 6        | 8.75          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 12       | 8.75          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 12       | 8.75          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 5        | 8.75          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 5        | 8.75          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 13       | 8.75          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 13       | 8.75          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 10       | 8.75          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 10       | 8.75          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 10       | 8.75          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 13       | 8.75          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 1        | 8.75          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 8        | 8.75          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 8        | 8.75          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 8        | 8.75          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 8        | 8.75          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 16       | 8.75          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 17       | 8.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2  | 17       | 8.75          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1  | 19       | 8.75          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2  | 19       | 8.75          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1  | 9        | 8.75          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2  | 9        | 8.75          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE1  | 17       | 8.75          |
| (1,3161) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HE2  | 17       | 8.75          |
| (1,3012) | 1:A:12:GLY:H   | 1:A:25:TYR:HB2  | 17       | 8.75          |
| (1,2869) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HA   | 13       | 8.75          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG   | 11       | 8.75          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2  | 1        | 8.75          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3  | 1        | 8.75          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA   | 5        | 8.75          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA   | 4        | 8.75          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 4        | 8.75          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 4        | 8.75          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H    | 12       | 8.75          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 10       | 8.75          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 10       | 8.75          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 2        | 8.75          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 2        | 8.75          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 2        | 8.75          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 2        | 8.75          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2  | 6        | 8.75          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3  | 6        | 8.75          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG2  | 9        | 8.75          |
| (1,2148) | 1:A:9:PRO:HA   | 1:A:15:ARG:HG3  | 9        | 8.75          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1  | 7        | 8.75          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2  | 7        | 8.75          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 16       | 8.75          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 16       | 8.75          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA   | 4        | 8.75          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 20       | 8.75          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 20       | 8.75          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 1        | 8.75          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 1        | 8.75          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 2        | 8.75          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 2        | 8.75          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 13       | 8.75          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA   | 5        | 8.75          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 1        | 8.74          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 1        | 8.74          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1 | 14       | 8.74          |
| (1,840)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HD1 | 11       | 8.74          |
| (1,778)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HE1 | 12       | 8.74          |
| (1,763)  | 1:A:3:PRO:HA    | 1:A:27:GLY:H   | 7        | 8.74          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 11       | 8.74          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 11       | 8.74          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD2 | 2        | 8.74          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD2 | 2        | 8.74          |
| (1,4567) | 1:A:25:TYR:HD1  | 1:A:30:PRO:HD3 | 2        | 8.74          |
| (1,4567) | 1:A:25:TYR:HD2  | 1:A:30:PRO:HD3 | 2        | 8.74          |
| (1,4562) | 1:A:25:TYR:HD1  | 1:A:29:GLY:H   | 10       | 8.74          |
| (1,4562) | 1:A:25:TYR:HD2  | 1:A:29:GLY:H   | 10       | 8.74          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 7        | 8.74          |
| (1,4473) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HB3 | 12       | 8.74          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 11       | 8.74          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 11       | 8.74          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 15       | 8.74          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 15       | 8.74          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 12       | 8.74          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 12       | 8.74          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 12       | 8.74          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 12       | 8.74          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 5        | 8.74          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 11       | 8.74          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 11       | 8.74          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 10       | 8.74          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 15       | 8.74          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 3        | 8.74          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 17       | 8.74          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 13       | 8.74          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 2        | 8.74          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 4        | 8.74          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 12       | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 1        | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 1        | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 8        | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 8        | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 9        | 8.74          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 9        | 8.74          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 17       | 8.74          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 9        | 8.74          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 9        | 8.74          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE1 | 12       | 8.74          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE2 | 12       | 8.74          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 6        | 8.74          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 6        | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 14       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 14       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 14       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 15       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 15       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 15       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 17       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 17       | 8.74          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 17       | 8.74          |
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2 | 8        | 8.74          |
| (1,3611) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HB2 | 12       | 8.74          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1 | 14       | 8.74          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 14       | 8.74          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 8        | 8.74          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 8        | 8.74          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3 | 16       | 8.74          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 16       | 8.74          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 19       | 8.74          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 19       | 8.74          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA2 | 15       | 8.74          |
| (1,3311) | 1:A:15:ARG:HB2 | 1:A:29:GLY:HA3 | 15       | 8.74          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1 | 2        | 8.74          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2 | 2        | 8.74          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 12       | 8.74          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 5        | 8.74          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 5        | 8.74          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 11       | 8.74          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 11       | 8.74          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 6        | 8.74          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 6        | 8.74          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 10       | 8.74          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 10       | 8.74          |
| (1,3156) | 1:A:13:GLY:HA3 | 1:A:23:TYR:H   | 17       | 8.74          |
| (1,2856) | 1:A:11:TRP:HE1 | 1:A:21:SER:HG  | 1        | 8.74          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 11       | 8.74          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 11       | 8.74          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 6        | 8.74          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2 | 3        | 8.74          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3 | 3        | 8.74          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 10       | 8.74          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 10       | 8.74          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB2 | 17       | 8.74          |
| (1,2474) | 1:A:10:GLY:H   | 1:A:25:TYR:HB3 | 17       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 11       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 11       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 11       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 11       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 13       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 13       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 13       | 8.74          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 13       | 8.74          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 12       | 8.74          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 7        | 8.74          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 7        | 8.74          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 8        | 8.74          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 3        | 8.74          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 3        | 8.74          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 4        | 8.74          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 4        | 8.74          |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 3        | 8.74          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 13       | 8.74          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 8        | 8.74          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 9        | 8.74          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 9        | 8.74          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB2 | 20       | 8.74          |
| (1,1815) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HB3 | 20       | 8.74          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 3        | 8.74          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 3        | 8.74          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 14       | 8.74          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 5        | 8.74          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 14       | 8.74          |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 14       | 8.74          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 14       | 8.74          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 14       | 8.74          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 5        | 8.74          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 1        | 8.74          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 18       | 8.74          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 6        | 8.73          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 7        | 8.73          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 20       | 8.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 11       | 8.73          |
| (1,4616) | 1:A:26:CYS:H    | 1:A:31:LYS:HB2 | 1        | 8.73          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 10       | 8.73          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 10       | 8.73          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 7        | 8.73          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 7        | 8.73          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 7        | 8.73          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 7        | 8.73          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 3        | 8.73          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 3        | 8.73          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 6        | 8.73          |
| (1,4382) | 1:A:23:TYR:HB2  | 1:A:34:ALA:H   | 4        | 8.73          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 3        | 8.73          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 6        | 8.73          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 12       | 8.73          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 14       | 8.73          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 13       | 8.73          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 13       | 8.73          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 6        | 8.73          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 6        | 8.73          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 13       | 8.73          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 15       | 8.73          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 15       | 8.73          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 7        | 8.73          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 7        | 8.73          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 15       | 8.73          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 13       | 8.73          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 13       | 8.73          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 11       | 8.73          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 11       | 8.73          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 18       | 8.73          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 18       | 8.73          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 20       | 8.73          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 20       | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 3        | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 3        | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 4        | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 4        | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 6        | 8.73          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 6        | 8.73          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 16       | 8.73          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 16       | 8.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 16       | 8.73          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 11       | 8.73          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 13       | 8.73          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 15       | 8.73          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 15       | 8.73          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 10       | 8.73          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 11       | 8.73          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 11       | 8.73          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 1        | 8.73          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 9        | 8.73          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 9        | 8.73          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 13       | 8.73          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 13       | 8.73          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 11       | 8.73          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 6        | 8.73          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 16       | 8.73          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 5        | 8.73          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 5        | 8.73          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 2        | 8.73          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2 | 2        | 8.73          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 17       | 8.73          |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 17       | 8.73          |
| (1,3064) | 1:A:12:GLY:HA3  | 1:A:25:TYR:H   | 8        | 8.73          |
| (1,3064) | 1:A:12:GLY:HA3  | 1:A:25:TYR:H   | 9        | 8.73          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H   | 8        | 8.73          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H   | 20       | 8.73          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1 | 8        | 8.73          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2 | 8        | 8.73          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1 | 8        | 8.73          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2 | 8        | 8.73          |
| (1,2388) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HA  | 15       | 8.73          |
| (1,2324) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HA  | 15       | 8.73          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB2 | 5        | 8.73          |
| (1,2174) | 1:A:9:PRO:HA    | 1:A:26:CYS:HB3 | 5        | 8.73          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3 | 1        | 8.73          |
| (1,2110) | 1:A:8:GLY:HA3   | 1:A:19:CYS:H   | 5        | 8.73          |
| (1,2083) | 1:A:8:GLY:HA2   | 1:A:18:LEU:HB2 | 11       | 8.73          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 5        | 8.73          |
| (1,2036) | 1:A:8:GLY:H     | 1:A:18:LEU:H   | 6        | 8.73          |
| (1,2011) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HG2 | 18       | 8.73          |
| (1,2011) | 1:A:7:CYS:HB3   | 1:A:31:LYS:HG2 | 18       | 8.73          |
| (1,2011) | 1:A:7:CYS:HB2   | 1:A:31:LYS:HG3 | 18       | 8.73          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 18       | 8.73          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 10       | 8.73          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 10       | 8.73          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 6        | 8.73          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 6        | 8.73          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 20       | 8.73          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 12       | 8.73          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1  | 20       | 8.73          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2  | 20       | 8.73          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA   | 3        | 8.73          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2  | 8        | 8.73          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3  | 8        | 8.73          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 1        | 8.73          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 10       | 8.73          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 15       | 8.73          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 6        | 8.73          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 6        | 8.73          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 13       | 8.73          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H    | 15       | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 7        | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 7        | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 13       | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 13       | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 16       | 8.73          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 16       | 8.73          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 11       | 8.73          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 11       | 8.73          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1  | 8        | 8.72          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1  | 16       | 8.72          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1  | 19       | 8.72          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2  | 13       | 8.72          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2  | 17       | 8.72          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3  | 17       | 8.72          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2  | 15       | 8.72          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3  | 15       | 8.72          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG   | 11       | 8.72          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1  | 4        | 8.72          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 7        | 8.72          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2  | 17       | 8.72          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H    | 8        | 8.72          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H    | 8        | 8.72          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2  | 12       | 8.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 18       | 8.72          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 19       | 8.72          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 20       | 8.72          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 5        | 8.72          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 18       | 8.72          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 18       | 8.72          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 4        | 8.72          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 4        | 8.72          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 13       | 8.72          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 13       | 8.72          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 13       | 8.72          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 13       | 8.72          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 1        | 8.72          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 1        | 8.72          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 1        | 8.72          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 1        | 8.72          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 6        | 8.72          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 6        | 8.72          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 6        | 8.72          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 20       | 8.72          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 1        | 8.72          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 5        | 8.72          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 5        | 8.72          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 3        | 8.72          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 3        | 8.72          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 2        | 8.72          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 18       | 8.72          |
| (1,4145) | 1:A:22:GLN:HA   | 1:A:28:SER:H   | 12       | 8.72          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 18       | 8.72          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 13       | 8.72          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 13       | 8.72          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 5        | 8.72          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 5        | 8.72          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 7        | 8.72          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 8        | 8.72          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 11       | 8.72          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 11       | 8.72          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 11       | 8.72          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 19       | 8.72          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 19       | 8.72          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 18       | 8.72          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 18       | 8.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3898) | 1:A:19:CYS:HB3 | 1:A:25:TYR:HE1 | 19       | 8.72          |
| (1,3898) | 1:A:19:CYS:HB3 | 1:A:25:TYR:HE2 | 19       | 8.72          |
| (1,3855) | 1:A:19:CYS:HA  | 1:A:23:TYR:HE1 | 14       | 8.72          |
| (1,3855) | 1:A:19:CYS:HA  | 1:A:23:TYR:HE2 | 14       | 8.72          |
| (1,3756) | 1:A:18:LEU:HG  | 1:A:34:ALA:H   | 4        | 8.72          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1 | 15       | 8.72          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 15       | 8.72          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H   | 11       | 8.72          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 1        | 8.72          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1 | 3        | 8.72          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2 | 3        | 8.72          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1 | 4        | 8.72          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2 | 4        | 8.72          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 13       | 8.72          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 13       | 8.72          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 4        | 8.72          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 12       | 8.72          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 12       | 8.72          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 20       | 8.72          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB2 | 13       | 8.72          |
| (1,2837) | 1:A:11:TRP:HE1 | 1:A:14:CYS:HB3 | 13       | 8.72          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 1        | 8.72          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 1        | 8.72          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 2        | 8.72          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 2        | 8.72          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 1        | 8.72          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 1        | 8.72          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 1        | 8.72          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 1        | 8.72          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 14       | 8.72          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 14       | 8.72          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 15       | 8.72          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 15       | 8.72          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 7        | 8.72          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 7        | 8.72          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 13       | 8.72          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 18       | 8.72          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 19       | 8.72          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 12       | 8.72          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 16       | 8.72          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 2        | 8.72          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 6        | 8.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 10       | 8.72          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 13       | 8.72          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 13       | 8.72          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 5        | 8.72          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 5        | 8.72          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 5        | 8.72          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 5        | 8.72          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 2        | 8.72          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 13       | 8.72          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 13       | 8.72          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 14       | 8.72          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 14       | 8.72          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 12       | 8.72          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 12       | 8.72          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 4        | 8.72          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 6        | 8.72          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 11       | 8.72          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 11       | 8.72          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 8        | 8.72          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 10       | 8.72          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 10       | 8.72          |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 10       | 8.72          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 14       | 8.72          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 9        | 8.72          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 17       | 8.72          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 11       | 8.71          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 11       | 8.71          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 10       | 8.71          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 13       | 8.71          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 14       | 8.71          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 18       | 8.71          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1 | 3        | 8.71          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2 | 3        | 8.71          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3 | 3        | 8.71          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2 | 15       | 8.71          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3 | 15       | 8.71          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 8        | 8.71          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 9        | 8.71          |
| (1,4524) | 1:A:25:TYR:H   | 1:A:33:CYS:HB2 | 16       | 8.71          |
| (1,4514) | 1:A:25:TYR:H   | 1:A:31:LYS:H   | 10       | 8.71          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 6        | 8.71          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 6        | 8.71          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2  | 19       | 8.71          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 19       | 8.71          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 19       | 8.71          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 19       | 8.71          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 3        | 8.71          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 3        | 8.71          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 3        | 8.71          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 3        | 8.71          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 13       | 8.71          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H    | 1        | 8.71          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2  | 7        | 8.71          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3  | 7        | 8.71          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 5        | 8.71          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 5        | 8.71          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA   | 9        | 8.71          |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3  | 15       | 8.71          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 14       | 8.71          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2  | 12       | 8.71          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3  | 12       | 8.71          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2  | 14       | 8.71          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3  | 14       | 8.71          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 4        | 8.71          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 4        | 8.71          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 11       | 8.71          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 11       | 8.71          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 6        | 8.71          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 6        | 8.71          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 11       | 8.71          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 11       | 8.71          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA   | 8        | 8.71          |
| (1,3681) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HB2  | 14       | 8.71          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 3        | 8.71          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 4        | 8.71          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 13       | 8.71          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 13       | 8.71          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 15       | 8.71          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 15       | 8.71          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 8        | 8.71          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 8        | 8.71          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2  | 12       | 8.71          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3  | 12       | 8.71          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 15       | 8.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3508) | 1:A:16:GLY:HA2 | 1:A:26:CYS:H   | 15       | 8.71          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 11       | 8.71          |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 16       | 8.71          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 12       | 8.71          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 12       | 8.71          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 16       | 8.71          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 16       | 8.71          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 7        | 8.71          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 7        | 8.71          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 12       | 8.71          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 12       | 8.71          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 18       | 8.71          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 18       | 8.71          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 19       | 8.71          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 19       | 8.71          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 17       | 8.71          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 2        | 8.71          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 3        | 8.71          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 10       | 8.71          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 1        | 8.71          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 1        | 8.71          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 12       | 8.71          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 18       | 8.71          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H   | 19       | 8.71          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 11       | 8.71          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 18       | 8.71          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 19       | 8.71          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 20       | 8.71          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 11       | 8.71          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 11       | 8.71          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 16       | 8.71          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 16       | 8.71          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 16       | 8.71          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 18       | 8.71          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 19       | 8.71          |
| (1,2222) | 1:A:9:PRO:HB2  | 1:A:25:TYR:H   | 17       | 8.71          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 10       | 8.71          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 10       | 8.71          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 20       | 8.71          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 2        | 8.71          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 18       | 8.71          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 18       | 8.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 20       | 8.71          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 20       | 8.71          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 3        | 8.71          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 4        | 8.71          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 5        | 8.71          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 6        | 8.71          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 14       | 8.71          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 16       | 8.71          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 1        | 8.71          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 1        | 8.71          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 11       | 8.71          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 11       | 8.71          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 12       | 8.71          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 12       | 8.71          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 6        | 8.71          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 6        | 8.71          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 10       | 8.71          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 10       | 8.71          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 14       | 8.71          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 14       | 8.71          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 7        | 8.71          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 11       | 8.71          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 4        | 8.71          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 4        | 8.71          |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 2        | 8.71          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 2        | 8.71          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 2        | 8.71          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H   | 17       | 8.71          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 18       | 8.71          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 18       | 8.71          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 7        | 8.71          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 6        | 8.7           |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 6        | 8.7           |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 6        | 8.7           |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 6        | 8.7           |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 5        | 8.7           |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 8        | 8.7           |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 3        | 8.7           |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3 | 17       | 8.7           |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H   | 10       | 8.7           |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 15       | 8.7           |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 15       | 8.7           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 17       | 8.7           |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 17       | 8.7           |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 1        | 8.7           |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 1        | 8.7           |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 18       | 8.7           |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 18       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 11       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 11       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 11       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 11       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 13       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 13       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 13       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 13       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 16       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 16       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 16       | 8.7           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 16       | 8.7           |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 18       | 8.7           |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 18       | 8.7           |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 18       | 8.7           |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 14       | 8.7           |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 8        | 8.7           |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 11       | 8.7           |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 8        | 8.7           |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 5        | 8.7           |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 8        | 8.7           |
| (1,4120) | 1:A:22:GLN:H    | 1:A:30:PRO:HD3 | 12       | 8.7           |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 17       | 8.7           |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 17       | 8.7           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 1        | 8.7           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 11       | 8.7           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 18       | 8.7           |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 20       | 8.7           |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 16       | 8.7           |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 16       | 8.7           |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 16       | 8.7           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 5        | 8.7           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 5        | 8.7           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 5        | 8.7           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 5        | 8.7           |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 5        | 8.7           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 5        | 8.7           |
| (1,3759) | 1:A:18:LEU:HG   | 1:A:35:HIS:HB3 | 12       | 8.7           |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 3        | 8.7           |
| (1,3666) | 1:A:18:LEU:HA   | 1:A:22:GLN:HG3 | 20       | 8.7           |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 17       | 8.7           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 17       | 8.7           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 17       | 8.7           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 17       | 8.7           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 8        | 8.7           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 8        | 8.7           |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 9        | 8.7           |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 9        | 8.7           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 10       | 8.7           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 10       | 8.7           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 17       | 8.7           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 17       | 8.7           |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 11       | 8.7           |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 9        | 8.7           |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 9        | 8.7           |
| (1,3372) | 1:A:15:ARG:HG2  | 1:A:25:TYR:H   | 16       | 8.7           |
| (1,3372) | 1:A:15:ARG:HG3  | 1:A:25:TYR:H   | 16       | 8.7           |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H   | 20       | 8.7           |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1 | 9        | 8.7           |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2 | 9        | 8.7           |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 5        | 8.7           |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2 | 5        | 8.7           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE1 | 15       | 8.7           |
| (1,3067) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HE2 | 15       | 8.7           |
| (1,3064) | 1:A:12:GLY:HA3  | 1:A:25:TYR:H   | 7        | 8.7           |
| (1,3017) | 1:A:12:GLY:H    | 1:A:27:GLY:H   | 17       | 8.7           |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H   | 7        | 8.7           |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H   | 16       | 8.7           |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 2        | 8.7           |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 2        | 8.7           |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB1 | 14       | 8.7           |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB2 | 14       | 8.7           |
| (1,2455) | 1:A:9:PRO:HD2   | 1:A:34:ALA:HB3 | 14       | 8.7           |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB1 | 14       | 8.7           |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB2 | 14       | 8.7           |
| (1,2455) | 1:A:9:PRO:HD3   | 1:A:34:ALA:HB3 | 14       | 8.7           |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1 | 19       | 8.7           |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2 | 19       | 8.7           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 19       | 8.7           |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 19       | 8.7           |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 15       | 8.7           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 4        | 8.7           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 4        | 8.7           |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 12       | 8.7           |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 11       | 8.7           |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 9        | 8.7           |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 9        | 8.7           |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 3        | 8.7           |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 4        | 8.7           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 16       | 8.7           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 16       | 8.7           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 19       | 8.7           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 19       | 8.7           |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 12       | 8.7           |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 12       | 8.7           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 9        | 8.7           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 9        | 8.7           |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 3        | 8.7           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 7        | 8.7           |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 7        | 8.7           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 16       | 8.7           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 16       | 8.7           |
| (1,1432) | 1:A:5:GLY:H    | 1:A:23:TYR:HA  | 10       | 8.7           |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 1        | 8.7           |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 1        | 8.7           |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 11       | 8.7           |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 6        | 8.7           |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 6        | 8.7           |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 19       | 8.7           |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 19       | 8.7           |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 11       | 8.69          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 11       | 8.69          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 7        | 8.69          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 7        | 8.69          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 7        | 8.69          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 7        | 8.69          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 2        | 8.69          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 2        | 8.69          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 20       | 8.69          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 15       | 8.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 1        | 8.69          |
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 13       | 8.69          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2 | 6        | 8.69          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3 | 6        | 8.69          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 7        | 8.69          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 7        | 8.69          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 16       | 8.69          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 16       | 8.69          |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 1        | 8.69          |
| (1,4674) | 1:A:26:CYS:HB3  | 1:A:35:HIS:HE1 | 1        | 8.69          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 3        | 8.69          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 1        | 8.69          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 10       | 8.69          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 11       | 8.69          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 7        | 8.69          |
| (1,4524) | 1:A:25:TYR:H    | 1:A:33:CYS:HB2 | 14       | 8.69          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 4        | 8.69          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 4        | 8.69          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 1        | 8.69          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 9        | 8.69          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 3        | 8.69          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 3        | 8.69          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 9        | 8.69          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 13       | 8.69          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 13       | 8.69          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 13       | 8.69          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 10       | 8.69          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 16       | 8.69          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 6        | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 16       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 16       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 18       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 18       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 19       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 19       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 20       | 8.69          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 20       | 8.69          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 19       | 8.69          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 7        | 8.69          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 2        | 8.69          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 2        | 8.69          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 11       | 8.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3605) | 1:A:17:GLY:HA2 | 1:A:26:CYS:H    | 2        | 8.69          |
| (1,3605) | 1:A:17:GLY:HA2 | 1:A:26:CYS:H    | 10       | 8.69          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE1  | 7        | 8.69          |
| (1,3581) | 1:A:17:GLY:H   | 1:A:32:TYR:HE2  | 7        | 8.69          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 15       | 8.69          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1  | 4        | 8.69          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2  | 4        | 8.69          |
| (1,3364) | 1:A:15:ARG:HG2 | 1:A:21:SER:HG   | 16       | 8.69          |
| (1,3364) | 1:A:15:ARG:HG3 | 1:A:21:SER:HG   | 16       | 8.69          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2  | 8        | 8.69          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3  | 8        | 8.69          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2  | 9        | 8.69          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3  | 9        | 8.69          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H    | 16       | 8.69          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG   | 9        | 8.69          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 6        | 8.69          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 6        | 8.69          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H    | 8        | 8.69          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA   | 14       | 8.69          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 13       | 8.69          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 13       | 8.69          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 17       | 8.69          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 17       | 8.69          |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 8        | 8.69          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 10       | 8.69          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 10       | 8.69          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1  | 14       | 8.69          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2  | 14       | 8.69          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1  | 14       | 8.69          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2  | 14       | 8.69          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1  | 2        | 8.69          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2  | 2        | 8.69          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1  | 2        | 8.69          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2  | 2        | 8.69          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 11       | 8.69          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 1        | 8.69          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 1        | 8.69          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1  | 8        | 8.69          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2  | 8        | 8.69          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 7        | 8.69          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 7        | 8.69          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 2        | 8.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H    | 2        | 8.69          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 8        | 8.69          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H    | 8        | 8.69          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 5        | 8.69          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 5        | 8.69          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2  | 15       | 8.69          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3  | 15       | 8.69          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 7        | 8.69          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H    | 18       | 8.69          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2   | 11       | 8.69          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3   | 11       | 8.69          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 20       | 8.69          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 20       | 8.69          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 7        | 8.69          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 7        | 8.69          |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 19       | 8.69          |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 19       | 8.69          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 15       | 8.69          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H    | 18       | 8.69          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H    | 13       | 8.69          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 15       | 8.68          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 15       | 8.68          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H    | 9        | 8.68          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H    | 9        | 8.68          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2  | 5        | 8.68          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2  | 5        | 8.68          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 5        | 8.68          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 7        | 8.68          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 16       | 8.68          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG   | 14       | 8.68          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H    | 15       | 8.68          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 10       | 8.68          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 10       | 8.68          |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG   | 14       | 8.68          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H    | 6        | 8.68          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H    | 12       | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 5        | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 5        | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 5        | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 9        | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 9        | 8.68          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 9        | 8.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 7        | 8.68          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 7        | 8.68          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 16       | 8.68          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 16       | 8.68          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 9        | 8.68          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 9        | 8.68          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 14       | 8.68          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 14       | 8.68          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 20       | 8.68          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 11       | 8.68          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 12       | 8.68          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 18       | 8.68          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 19       | 8.68          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 20       | 8.68          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 5        | 8.68          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 2        | 8.68          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 3        | 8.68          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 12       | 8.68          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 11       | 8.68          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 12       | 8.68          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 12       | 8.68          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 18       | 8.68          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 9        | 8.68          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 1        | 8.68          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 1        | 8.68          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 1        | 8.68          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 12       | 8.68          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 12       | 8.68          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 12       | 8.68          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 12       | 8.68          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 12       | 8.68          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 12       | 8.68          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 10       | 8.68          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 2        | 8.68          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 10       | 8.68          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3 | 10       | 8.68          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 4        | 8.68          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 2        | 8.68          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 2        | 8.68          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 2        | 8.68          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 4        | 8.68          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 4        | 8.68          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 4        | 8.68          |
| (1,3427) | 1:A:15:ARG:HE  | 1:A:20:CYS:H   | 17       | 8.68          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H   | 7        | 8.68          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H   | 7        | 8.68          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H   | 16       | 8.68          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H   | 16       | 8.68          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H   | 6        | 8.68          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H   | 6        | 8.68          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 18       | 8.68          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 18       | 8.68          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 4        | 8.68          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 9        | 8.68          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 15       | 8.68          |
| (1,2743) | 1:A:11:TRP:HD1 | 1:A:22:GLN:HA  | 3        | 8.68          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 4        | 8.68          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 4        | 8.68          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 5        | 8.68          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 5        | 8.68          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 9        | 8.68          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 9        | 8.68          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 10       | 8.68          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 10       | 8.68          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 10       | 8.68          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 10       | 8.68          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 7        | 8.68          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 7        | 8.68          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 7        | 8.68          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 7        | 8.68          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 1        | 8.68          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 20       | 8.68          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 10       | 8.68          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 6        | 8.68          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 6        | 8.68          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 9        | 8.68          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 13       | 8.68          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 1        | 8.68          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 11       | 8.68          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 11       | 8.68          |
| (1,2036) | 1:A:8:GLY:H    | 1:A:18:LEU:H   | 17       | 8.68          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 11       | 8.68          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 11       | 8.68          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 11       | 8.68          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 11       | 8.68          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 4        | 8.68          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 4        | 8.68          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 19       | 8.68          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 18       | 8.68          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 18       | 8.68          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 19       | 8.68          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 19       | 8.68          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 14       | 8.68          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 9        | 8.68          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 5        | 8.68          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 5        | 8.68          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 5        | 8.68          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 15       | 8.68          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 15       | 8.68          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 17       | 8.68          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 19       | 8.68          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 8        | 8.68          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 8        | 8.68          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 12       | 8.67          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 12       | 8.67          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 19       | 8.67          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 14       | 8.67          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 12       | 8.67          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 11       | 8.67          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 5        | 8.67          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 17       | 8.67          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H   | 8        | 8.67          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 12       | 8.67          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 10       | 8.67          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 8        | 8.67          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 8        | 8.67          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2 | 1        | 8.67          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3 | 1        | 8.67          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 6        | 8.67          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 6        | 8.67          |
| (1,4514) | 1:A:25:TYR:H   | 1:A:31:LYS:H   | 11       | 8.67          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 17       | 8.67          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 17       | 8.67          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 12       | 8.67          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 12       | 8.67          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG2 | 13       | 8.67          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 13       | 8.67          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 13       | 8.67          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 13       | 8.67          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 17       | 8.67          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 17       | 8.67          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 17       | 8.67          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 17       | 8.67          |
| (1,4398) | 1:A:23:TYR:HD1  | 1:A:29:GLY:H   | 2        | 8.67          |
| (1,4398) | 1:A:23:TYR:HD2  | 1:A:29:GLY:H   | 2        | 8.67          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 7        | 8.67          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 1        | 8.67          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 8        | 8.67          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 16       | 8.67          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 6        | 8.67          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 6        | 8.67          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 11       | 8.67          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 20       | 8.67          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 20       | 8.67          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 19       | 8.67          |
| (1,4177) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HB3 | 14       | 8.67          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 4        | 8.67          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 4        | 8.67          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 8        | 8.67          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 8        | 8.67          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 9        | 8.67          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 9        | 8.67          |
| (1,3998) | 1:A:20:CYS:HB3  | 1:A:29:GLY:HA3 | 16       | 8.67          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE1 | 10       | 8.67          |
| (1,3898) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HE2 | 10       | 8.67          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 14       | 8.67          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 14       | 8.67          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 8        | 8.67          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 18       | 8.67          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 7        | 8.67          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 7        | 8.67          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3 | 11       | 8.67          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 11       | 8.67          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 2        | 8.67          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 2        | 8.67          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 5        | 8.67          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 15       | 8.67          |
| (1,3430) | 1:A:15:ARG:HE   | 1:A:24:GLY:HA2 | 7        | 8.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3430) | 1:A:15:ARG:HE  | 1:A:24:GLY:HA3  | 7        | 8.67          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 11       | 8.67          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 11       | 8.67          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3  | 1        | 8.67          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3  | 1        | 8.67          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H    | 7        | 8.67          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1  | 12       | 8.67          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2  | 12       | 8.67          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2  | 7        | 8.67          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3  | 7        | 8.67          |
| (1,3064) | 1:A:12:GLY:HA3 | 1:A:25:TYR:H    | 14       | 8.67          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 17       | 8.67          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 17       | 8.67          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H    | 12       | 8.67          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H    | 1        | 8.67          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H    | 8        | 8.67          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H    | 15       | 8.67          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 3        | 8.67          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 3        | 8.67          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1  | 10       | 8.67          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2  | 10       | 8.67          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 18       | 8.67          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 18       | 8.67          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 11       | 8.67          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 11       | 8.67          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1  | 3        | 8.67          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2  | 3        | 8.67          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1  | 3        | 8.67          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2  | 3        | 8.67          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 2        | 8.67          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 2        | 8.67          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 8        | 8.67          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H    | 2        | 8.67          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H    | 11       | 8.67          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1  | 14       | 8.67          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2  | 14       | 8.67          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H    | 20       | 8.67          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1  | 12       | 8.67          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2  | 12       | 8.67          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 4        | 8.67          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 4        | 8.67          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 3        | 8.67          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 3        | 8.67          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2 | 16       | 8.67          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3 | 16       | 8.67          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 16       | 8.67          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 19       | 8.67          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 2        | 8.67          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 10       | 8.67          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 18       | 8.67          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 20       | 8.67          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 7        | 8.67          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 3        | 8.67          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 3        | 8.67          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 9        | 8.67          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 13       | 8.67          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 8        | 8.67          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 6        | 8.67          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 8        | 8.67          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 16       | 8.67          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 16       | 8.67          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 20       | 8.67          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 20       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 18       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 18       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 19       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 19       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 20       | 8.67          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 20       | 8.67          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 8        | 8.67          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 16       | 8.67          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 14       | 8.66          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 14       | 8.66          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 12       | 8.66          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 9        | 8.66          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 14       | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 3        | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 6        | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 13       | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 18       | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 19       | 8.66          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 20       | 8.66          |
| (1,4616) | 1:A:26:CYS:H   | 1:A:31:LYS:HB2 | 15       | 8.66          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 4        | 8.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 4        | 8.66          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 6        | 8.66          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 6        | 8.66          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 1        | 8.66          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 8        | 8.66          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 8        | 8.66          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 4        | 8.66          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 17       | 8.66          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 19       | 8.66          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 19       | 8.66          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 19       | 8.66          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 6        | 8.66          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 13       | 8.66          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 15       | 8.66          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 14       | 8.66          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 20       | 8.66          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 20       | 8.66          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 4        | 8.66          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 4        | 8.66          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB2 | 2        | 8.66          |
| (1,4081) | 1:A:21:SER:HG   | 1:A:30:PRO:HB3 | 2        | 8.66          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 11       | 8.66          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 11       | 8.66          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 15       | 8.66          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 15       | 8.66          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 20       | 8.66          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 14       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 12       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 12       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 12       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 19       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 19       | 8.66          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 19       | 8.66          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 12       | 8.66          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 12       | 8.66          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 1        | 8.66          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 1        | 8.66          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 14       | 8.66          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 14       | 8.66          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 14       | 8.66          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 2        | 8.66          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2 | 15       | 8.66          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 15       | 8.66          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 4        | 8.66          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 4        | 8.66          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 4        | 8.66          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 9        | 8.66          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB2 | 5        | 8.66          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB3 | 5        | 8.66          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 13       | 8.66          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 13       | 8.66          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 10       | 8.66          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 10       | 8.66          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 10       | 8.66          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 10       | 8.66          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H   | 14       | 8.66          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE1 | 14       | 8.66          |
| (1,3067) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HE2 | 14       | 8.66          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB2 | 17       | 8.66          |
| (1,2855) | 1:A:11:TRP:HE1 | 1:A:21:SER:HB3 | 17       | 8.66          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 13       | 8.66          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 1        | 8.66          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 1        | 8.66          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 4        | 8.66          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 4        | 8.66          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 4        | 8.66          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 4        | 8.66          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 19       | 8.66          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 19       | 8.66          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 19       | 8.66          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 19       | 8.66          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 5        | 8.66          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 3        | 8.66          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 3        | 8.66          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 5        | 8.66          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 17       | 8.66          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 14       | 8.66          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 14       | 8.66          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 13       | 8.66          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 13       | 8.66          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 10       | 8.66          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 10       | 8.66          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 15       | 8.66          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 15       | 8.66          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 11       | 8.66          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 11       | 8.66          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 6        | 8.66          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H    | 6        | 8.66          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H    | 15       | 8.66          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H    | 15       | 8.66          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 3        | 8.66          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 3        | 8.66          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA   | 3        | 8.66          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA2  | 8        | 8.66          |
| (1,1837) | 1:A:6:GLN:HE21 | 1:A:27:GLY:HA3  | 8        | 8.66          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2  | 3        | 8.66          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3  | 3        | 8.66          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2  | 4        | 8.66          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3  | 4        | 8.66          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 7        | 8.66          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 8        | 8.66          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA   | 18       | 8.66          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 8        | 8.66          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 8        | 8.66          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H    | 19       | 8.66          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H    | 8        | 8.66          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 7        | 8.66          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 7        | 8.66          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 12       | 8.66          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 12       | 8.66          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H    | 15       | 8.66          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 2        | 8.65          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 2        | 8.65          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 10       | 8.65          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 10       | 8.65          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 8        | 8.65          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1  | 18       | 8.65          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H    | 8        | 8.65          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1  | 18       | 8.65          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1  | 17       | 8.65          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 2        | 8.65          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 19       | 8.65          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 19       | 8.65          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H    | 7        | 8.65          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA   | 13       | 8.65          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA   | 15       | 8.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 2        | 8.65          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 2        | 8.65          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 2        | 8.65          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 5        | 8.65          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 15       | 8.65          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 16       | 8.65          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 19       | 8.65          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 19       | 8.65          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 9        | 8.65          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 10       | 8.65          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 10       | 8.65          |
| (1,4421) | 1:A:23:TYR:HE1  | 1:A:29:GLY:H   | 14       | 8.65          |
| (1,4421) | 1:A:23:TYR:HE2  | 1:A:29:GLY:H   | 14       | 8.65          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 8        | 8.65          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 8        | 8.65          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 8        | 8.65          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 8        | 8.65          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 8        | 8.65          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 8        | 8.65          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 11       | 8.65          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 11       | 8.65          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 11       | 8.65          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 18       | 8.65          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 6        | 8.65          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 12       | 8.65          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 8        | 8.65          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 16       | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 1        | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 1        | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 13       | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 13       | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 17       | 8.65          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 17       | 8.65          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 16       | 8.65          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 20       | 8.65          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 12       | 8.65          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 11       | 8.65          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 11       | 8.65          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 15       | 8.65          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 15       | 8.65          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 15       | 8.65          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 2        | 8.65          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 2        | 8.65          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 2        | 8.65          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 2        | 8.65          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 2        | 8.65          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 2        | 8.65          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA   | 2        | 8.65          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA   | 2        | 8.65          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA   | 2        | 8.65          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 3        | 8.65          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2  | 3        | 8.65          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 20       | 8.65          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1  | 2        | 8.65          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2  | 2        | 8.65          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3  | 2        | 8.65          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 1        | 8.65          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 1        | 8.65          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE1  | 14       | 8.65          |
| (1,3270) | 1:A:15:ARG:H    | 1:A:25:TYR:HE2  | 14       | 8.65          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2  | 5        | 8.65          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3  | 5        | 8.65          |
| (1,2837) | 1:A:11:TRP:HE1  | 1:A:14:CYS:HB2  | 14       | 8.65          |
| (1,2837) | 1:A:11:TRP:HE1  | 1:A:14:CYS:HB3  | 14       | 8.65          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2  | 2        | 8.65          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3  | 2        | 8.65          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1  | 2        | 8.65          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2  | 2        | 8.65          |
| (1,2476) | 1:A:10:GLY:H    | 1:A:25:TYR:HE1  | 19       | 8.65          |
| (1,2476) | 1:A:10:GLY:H    | 1:A:25:TYR:HE2  | 19       | 8.65          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1  | 12       | 8.65          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2  | 12       | 8.65          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1  | 12       | 8.65          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2  | 12       | 8.65          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE21 | 20       | 8.65          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE21 | 20       | 8.65          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE22 | 20       | 8.65          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE22 | 20       | 8.65          |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H    | 4        | 8.65          |
| (1,2332) | 1:A:9:PRO:HG2   | 1:A:25:TYR:H    | 9        | 8.65          |
| (1,2156) | 1:A:9:PRO:HA    | 1:A:20:CYS:H    | 2        | 8.65          |
| (1,2156) | 1:A:9:PRO:HA    | 1:A:20:CYS:H    | 10       | 8.65          |
| (1,2008) | 1:A:7:CYS:HB2   | 1:A:29:GLY:H    | 5        | 8.65          |
| (1,2008) | 1:A:7:CYS:HB3   | 1:A:29:GLY:H    | 5        | 8.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 2        | 8.65          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 6        | 8.65          |
| (1,1755) | 1:A:6:GLN:HG3  | 1:A:19:CYS:HA  | 20       | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 9        | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 9        | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 13       | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 13       | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 17       | 8.65          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 17       | 8.65          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 1        | 8.65          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 1        | 8.65          |
| (1,1534) | 1:A:6:GLN:H    | 1:A:28:SER:H   | 16       | 8.65          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 2        | 8.65          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 2        | 8.65          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 6        | 8.65          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 12       | 8.65          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 12       | 8.65          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 15       | 8.65          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 15       | 8.65          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 20       | 8.65          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 20       | 8.65          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 7        | 8.65          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 12       | 8.65          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 14       | 8.65          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 16       | 8.65          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB2 | 15       | 8.65          |
| (1,1008) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HB3 | 15       | 8.65          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 16       | 8.65          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 16       | 8.65          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 5        | 8.64          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 5        | 8.64          |
| (1,906)  | 1:A:3:PRO:HG2  | 1:A:13:GLY:HA2 | 10       | 8.64          |
| (1,906)  | 1:A:3:PRO:HG3  | 1:A:13:GLY:HA2 | 10       | 8.64          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 10       | 8.64          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 20       | 8.64          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB2 | 9        | 8.64          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB2 | 9        | 8.64          |
| (1,566)  | 1:A:1:SER:HB2  | 1:A:22:GLN:HB3 | 9        | 8.64          |
| (1,566)  | 1:A:1:SER:HB3  | 1:A:22:GLN:HB3 | 9        | 8.64          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 1        | 8.64          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3 | 9        | 8.64          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 11       | 8.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 11       | 8.64          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 12       | 8.64          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 12       | 8.64          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 9        | 8.64          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 9        | 8.64          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 9        | 8.64          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 9        | 8.64          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 9        | 8.64          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 7        | 8.64          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 7        | 8.64          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 20       | 8.64          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 20       | 8.64          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 17       | 8.64          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 17       | 8.64          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 19       | 8.64          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 20       | 8.64          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 4        | 8.64          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 6        | 8.64          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 6        | 8.64          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 19       | 8.64          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 18       | 8.64          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 19       | 8.64          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 15       | 8.64          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 15       | 8.64          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 14       | 8.64          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 14       | 8.64          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 14       | 8.64          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 8        | 8.64          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 8        | 8.64          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 8        | 8.64          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 15       | 8.64          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 15       | 8.64          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 15       | 8.64          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 11       | 8.64          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 12       | 8.64          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 4        | 8.64          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 4        | 8.64          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 12       | 8.64          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 11       | 8.64          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 3        | 8.64          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 14       | 8.64          |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 14       | 8.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3 | 6        | 8.64          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3 | 6        | 8.64          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 3        | 8.64          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 5        | 8.64          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 6        | 8.64          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 10       | 8.64          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 16       | 8.64          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 14       | 8.64          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 1        | 8.64          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 14       | 8.64          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 20       | 8.64          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 20       | 8.64          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 13       | 8.64          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 13       | 8.64          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 4        | 8.64          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 1        | 8.64          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 12       | 8.64          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 12       | 8.64          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 8        | 8.64          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 15       | 8.64          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 15       | 8.64          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE1 | 17       | 8.64          |
| (1,2119) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HE2 | 17       | 8.64          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 12       | 8.64          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 12       | 8.64          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 9        | 8.64          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 9        | 8.64          |
| (1,1974) | 1:A:7:CYS:H    | 1:A:35:HIS:HB2 | 1        | 8.64          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 2        | 8.64          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 10       | 8.64          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 16       | 8.64          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 1        | 8.64          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 1        | 8.64          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 10       | 8.64          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 5        | 8.64          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 5        | 8.64          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 16       | 8.64          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 19       | 8.64          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 4        | 8.64          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 18       | 8.64          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 18       | 8.64          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 19       | 8.64          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 19       | 8.64          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1  | 7        | 8.64          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2  | 7        | 8.64          |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE21 | 7        | 8.64          |
| (1,1651) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HE22 | 7        | 8.64          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2  | 17       | 8.64          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 11       | 8.64          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 11       | 8.64          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2  | 20       | 8.64          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3  | 20       | 8.64          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 10       | 8.64          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H    | 11       | 8.64          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 19       | 8.64          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 19       | 8.64          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2  | 7        | 8.64          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3  | 7        | 8.64          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 13       | 8.63          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 13       | 8.63          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG   | 18       | 8.63          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 5        | 8.63          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 5        | 8.63          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1  | 15       | 8.63          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2  | 15       | 8.63          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1  | 15       | 8.63          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2  | 15       | 8.63          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H    | 9        | 8.63          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2  | 1        | 8.63          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3  | 1        | 8.63          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1  | 20       | 8.63          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2  | 20       | 8.63          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3  | 20       | 8.63          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H    | 18       | 8.63          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H    | 18       | 8.63          |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2  | 6        | 8.63          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB2  | 7        | 8.63          |
| (1,4423) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HB2  | 7        | 8.63          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB3  | 7        | 8.63          |
| (1,4423) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HB3  | 7        | 8.63          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB2  | 10       | 8.63          |
| (1,4423) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HB2  | 10       | 8.63          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB3  | 10       | 8.63          |
| (1,4423) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HB3  | 10       | 8.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 9        | 8.63          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H   | 2        | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 4        | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 4        | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 16       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 16       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 18       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 18       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 19       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 19       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2 | 20       | 8.63          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3 | 20       | 8.63          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 2        | 8.63          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 17       | 8.63          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 3        | 8.63          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 6        | 8.63          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 7        | 8.63          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 7        | 8.63          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 13       | 8.63          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 13       | 8.63          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 7        | 8.63          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 7        | 8.63          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 8        | 8.63          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 8        | 8.63          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 11       | 8.63          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 11       | 8.63          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 19       | 8.63          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 19       | 8.63          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 5        | 8.63          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 5        | 8.63          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 5        | 8.63          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 6        | 8.63          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 6        | 8.63          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 6        | 8.63          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 2        | 8.63          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 17       | 8.63          |
| (1,3663) | 1:A:18:LEU:H    | 1:A:34:ALA:HA  | 5        | 8.63          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 13       | 8.63          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 15       | 8.63          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 1        | 8.63          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 13       | 8.63          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 4        | 8.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2 | 12       | 8.63          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H   | 18       | 8.63          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H   | 19       | 8.63          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 4        | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 11       | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 11       | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 16       | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 16       | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 17       | 8.63          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 17       | 8.63          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 17       | 8.63          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 17       | 8.63          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 5        | 8.63          |
| (1,2780) | 1:A:11:TRP:HE3 | 1:A:15:ARG:H   | 9        | 8.63          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 12       | 8.63          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 11       | 8.63          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2 | 18       | 8.63          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3 | 18       | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 7        | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 7        | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 8        | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 8        | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 14       | 8.63          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 14       | 8.63          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 18       | 8.63          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 18       | 8.63          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 18       | 8.63          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 18       | 8.63          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 12       | 8.63          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 6        | 8.63          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 16       | 8.63          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 16       | 8.63          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 15       | 8.63          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 3        | 8.63          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 10       | 8.63          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 6        | 8.63          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 6        | 8.63          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 19       | 8.63          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 19       | 8.63          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 4        | 8.63          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 6        | 8.63          |
| (1,1889) | 1:A:6:GLN:HE22 | 1:A:21:SER:H   | 5        | 8.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 13       | 8.63          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 13       | 8.63          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 13       | 8.63          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 13       | 8.63          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 7        | 8.63          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 12       | 8.63          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 3        | 8.63          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 6        | 8.63          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 10       | 8.63          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 10       | 8.63          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 15       | 8.63          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 15       | 8.63          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 8        | 8.63          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 8        | 8.63          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 17       | 8.63          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 17       | 8.63          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 1        | 8.63          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 12       | 8.63          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 11       | 8.63          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 8        | 8.63          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 8        | 8.63          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 12       | 8.63          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 8        | 8.62          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 8        | 8.62          |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 11       | 8.62          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 12       | 8.62          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 16       | 8.62          |
| (1,637)  | 1:A:2:GLY:H    | 1:A:23:TYR:HB3 | 6        | 8.62          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 13       | 8.62          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1 | 11       | 8.62          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2 | 11       | 8.62          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3 | 11       | 8.62          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 10       | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 7        | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 7        | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 8        | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 8        | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 13       | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 13       | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 14       | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 14       | 8.62          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 15       | 8.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3  | 15       | 8.62          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2  | 4        | 8.62          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2  | 7        | 8.62          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3  | 7        | 8.62          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 16       | 8.62          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 16       | 8.62          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 6        | 8.62          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 8        | 8.62          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 11       | 8.62          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H    | 18       | 8.62          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H    | 5        | 8.62          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H    | 19       | 8.62          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 10       | 8.62          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA   | 4        | 8.62          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG2  | 2        | 8.62          |
| (1,4031) | 1:A:21:SER:H    | 1:A:30:PRO:HG3  | 2        | 8.62          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 10       | 8.62          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1  | 9        | 8.62          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2  | 9        | 8.62          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 16       | 8.62          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 16       | 8.62          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 1        | 8.62          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 1        | 8.62          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 1        | 8.62          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA   | 20       | 8.62          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 6        | 8.62          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2  | 6        | 8.62          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 1        | 8.62          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 7        | 8.62          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 4        | 8.62          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 6        | 8.62          |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 12       | 8.62          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG2  | 16       | 8.62          |
| (1,3575) | 1:A:17:GLY:H    | 1:A:30:PRO:HG3  | 16       | 8.62          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2  | 13       | 8.62          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2  | 7        | 8.62          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2  | 7        | 8.62          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3  | 7        | 8.62          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3  | 7        | 8.62          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H    | 7        | 8.62          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H    | 15       | 8.62          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1  | 1        | 8.62          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 1        | 8.62          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1 | 13       | 8.62          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2 | 13       | 8.62          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3 | 13       | 8.62          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 20       | 8.62          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 6        | 8.62          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 10       | 8.62          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 15       | 8.62          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 15       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 11       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 11       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 11       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 11       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 14       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 14       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 14       | 8.62          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 14       | 8.62          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 10       | 8.62          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 14       | 8.62          |
| (1,2384) | 1:A:9:PRO:HG3  | 1:A:21:SER:H   | 3        | 8.62          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 14       | 8.62          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 14       | 8.62          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 7        | 8.62          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 7        | 8.62          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 12       | 8.62          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 4        | 8.62          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H   | 6        | 8.62          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 7        | 8.62          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 7        | 8.62          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 1        | 8.62          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 13       | 8.62          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 8        | 8.62          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 8        | 8.62          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 18       | 8.62          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 18       | 8.62          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 13       | 8.62          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 13       | 8.62          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 13       | 8.62          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 13       | 8.62          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 7        | 8.62          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 7        | 8.62          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 3        | 8.62          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 11       | 8.62          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 11       | 8.62          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 6        | 8.62          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 15       | 8.62          |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 15       | 8.62          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 10       | 8.62          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 10       | 8.62          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 8        | 8.62          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 18       | 8.62          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 20       | 8.62          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 20       | 8.62          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 17       | 8.62          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 17       | 8.62          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 16       | 8.62          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 16       | 8.62          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 18       | 8.62          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 18       | 8.62          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 13       | 8.62          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 13       | 8.62          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 5        | 8.62          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 14       | 8.62          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 14       | 8.62          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 1        | 8.62          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 16       | 8.62          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 20       | 8.62          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 20       | 8.62          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB2 | 9        | 8.62          |
| (1,1012) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HB3 | 9        | 8.62          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 1        | 8.61          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 1        | 8.61          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 16       | 8.61          |
| (1,778)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HE1 | 9        | 8.61          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 11       | 8.61          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 19       | 8.61          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 11       | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 1        | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 1        | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 9        | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 9        | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 11       | 8.61          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 11       | 8.61          |
| (1,4626) | 1:A:26:CYS:H   | 1:A:33:CYS:HB2 | 2        | 8.61          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2  | 15       | 8.61          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3  | 15       | 8.61          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H    | 12       | 8.61          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H    | 18       | 8.61          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H    | 19       | 8.61          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H    | 20       | 8.61          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA   | 17       | 8.61          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA   | 17       | 8.61          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2  | 10       | 8.61          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3  | 10       | 8.61          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2  | 10       | 8.61          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3  | 10       | 8.61          |
| (1,4370) | 1:A:23:TYR:HA   | 1:A:32:TYR:H    | 4        | 8.61          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 4        | 8.61          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 9        | 8.61          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 13       | 8.61          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H    | 19       | 8.61          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3  | 17       | 8.61          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 15       | 8.61          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA   | 14       | 8.61          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 12       | 8.61          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 12       | 8.61          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1  | 13       | 8.61          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2  | 13       | 8.61          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 7        | 8.61          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 7        | 8.61          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H    | 10       | 8.61          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H    | 10       | 8.61          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H    | 10       | 8.61          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA   | 16       | 8.61          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA   | 16       | 8.61          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA   | 16       | 8.61          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H    | 1        | 8.61          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2  | 12       | 8.61          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 15       | 8.61          |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3  | 2        | 8.61          |
| (1,3177) | 1:A:14:CYS:H    | 1:A:22:GLN:H    | 5        | 8.61          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1  | 4        | 8.61          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2  | 4        | 8.61          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3  | 4        | 8.61          |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H    | 8        | 8.61          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 13       | 8.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 2        | 8.61          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 18       | 8.61          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 18       | 8.61          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 19       | 8.61          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 19       | 8.61          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 1        | 8.61          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 8        | 8.61          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 11       | 8.61          |
| (1,2622) | 1:A:11:TRP:HA  | 1:A:25:TYR:H   | 17       | 8.61          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 6        | 8.61          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 6        | 8.61          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 6        | 8.61          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 9        | 8.61          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 9        | 8.61          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 9        | 8.61          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 13       | 8.61          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 5        | 8.61          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 6        | 8.61          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 6        | 8.61          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 4        | 8.61          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 5        | 8.61          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 2        | 8.61          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 2        | 8.61          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 16       | 8.61          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 16       | 8.61          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 1        | 8.61          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 1        | 8.61          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 4        | 8.61          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 4        | 8.61          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 17       | 8.61          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 19       | 8.61          |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 19       | 8.61          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 10       | 8.61          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 1        | 8.61          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 1        | 8.61          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 2        | 8.61          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 18       | 8.61          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 11       | 8.6           |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 11       | 8.6           |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 15       | 8.6           |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 15       | 8.6           |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 7        | 8.6           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3  | 16       | 8.6           |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H    | 1        | 8.6           |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H    | 8        | 8.6           |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2  | 3        | 8.6           |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3  | 3        | 8.6           |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2  | 6        | 8.6           |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3  | 6        | 8.6           |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H    | 16       | 8.6           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2  | 7        | 8.6           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2  | 7        | 8.6           |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3  | 7        | 8.6           |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3  | 7        | 8.6           |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 9        | 8.6           |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H    | 18       | 8.6           |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 11       | 8.6           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2  | 7        | 8.6           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3  | 7        | 8.6           |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 10       | 8.6           |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA   | 9        | 8.6           |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA   | 11       | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 6        | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 6        | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 9        | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 9        | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 11       | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 11       | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 18       | 8.6           |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 18       | 8.6           |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2  | 14       | 8.6           |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 14       | 8.6           |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 5        | 8.6           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1  | 8        | 8.6           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2  | 8        | 8.6           |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 20       | 8.6           |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 20       | 8.6           |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA   | 11       | 8.6           |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA   | 11       | 8.6           |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA   | 11       | 8.6           |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA   | 19       | 8.6           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 8        | 8.6           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2  | 8        | 8.6           |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1  | 9        | 8.6           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3688) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HE2  | 9        | 8.6           |
| (1,3663) | 1:A:18:LEU:H   | 1:A:34:ALA:HA   | 6        | 8.6           |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2  | 2        | 8.6           |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H    | 19       | 8.6           |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H    | 7        | 8.6           |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H    | 7        | 8.6           |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H    | 9        | 8.6           |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H    | 9        | 8.6           |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG   | 11       | 8.6           |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H    | 6        | 8.6           |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 9        | 8.6           |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 12       | 8.6           |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 15       | 8.6           |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 20       | 8.6           |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG   | 18       | 8.6           |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 15       | 8.6           |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 18       | 8.6           |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 19       | 8.6           |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 20       | 8.6           |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H    | 9        | 8.6           |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2  | 3        | 8.6           |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 3        | 8.6           |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2  | 4        | 8.6           |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 4        | 8.6           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 13       | 8.6           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 13       | 8.6           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 13       | 8.6           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 13       | 8.6           |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 2        | 8.6           |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 3        | 8.6           |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 11       | 8.6           |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 11       | 8.6           |
| (1,2158) | 1:A:9:PRO:HA   | 1:A:21:SER:H    | 17       | 8.6           |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 3        | 8.6           |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 19       | 8.6           |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 19       | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 1        | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 1        | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 3        | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 3        | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 7        | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 7        | 8.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 16       | 8.6           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 16       | 8.6           |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 4        | 8.6           |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 4        | 8.6           |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 4        | 8.6           |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 4        | 8.6           |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 7        | 8.6           |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 19       | 8.6           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 17       | 8.6           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 17       | 8.6           |
| (1,1873) | 1:A:6:GLN:HE22 | 1:A:13:GLY:H   | 17       | 8.6           |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB2  | 9        | 8.6           |
| (1,1866) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HB3  | 9        | 8.6           |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 20       | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 6        | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 6        | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 13       | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 13       | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 18       | 8.6           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 18       | 8.6           |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB2 | 20       | 8.6           |
| (1,1444) | 1:A:5:GLY:H    | 1:A:28:SER:HB3 | 20       | 8.6           |
| (1,1361) | 1:A:4:ASN:HD22 | 1:A:23:TYR:HB2 | 2        | 8.6           |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG2 | 11       | 8.6           |
| (1,1265) | 1:A:4:ASN:HD21 | 1:A:15:ARG:HG3 | 11       | 8.6           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 9        | 8.6           |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 9        | 8.6           |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 12       | 8.6           |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 19       | 8.6           |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 1        | 8.59          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 1        | 8.59          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 13       | 8.59          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 13       | 8.59          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 20       | 8.59          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 4        | 8.59          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 7        | 8.59          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 18       | 8.59          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 20       | 8.59          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 5        | 8.59          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 5        | 8.59          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 5        | 8.59          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 5        | 8.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 3        | 8.59          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 12       | 8.59          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 14       | 8.59          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 15       | 8.59          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 8        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB1 | 2        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB2 | 2        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE1  | 1:A:34:ALA:HB3 | 2        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB1 | 2        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB2 | 2        | 8.59          |
| (1,4602) | 1:A:25:TYR:HE2  | 1:A:34:ALA:HB3 | 2        | 8.59          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 6        | 8.59          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 14       | 8.59          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 15       | 8.59          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 5        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 5        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 5        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 5        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 8        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 8        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 8        | 8.59          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 8        | 8.59          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 7        | 8.59          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 7        | 8.59          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 17       | 8.59          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 17       | 8.59          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 19       | 8.59          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 6        | 8.59          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 6        | 8.59          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 13       | 8.59          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 13       | 8.59          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 12       | 8.59          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 12       | 8.59          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 13       | 8.59          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 1        | 8.59          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 5        | 8.59          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 8        | 8.59          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 5        | 8.59          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 9        | 8.59          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 12       | 8.59          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 16       | 8.59          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 18       | 8.59          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3672) | 1:A:18:LEU:HA  | 1:A:31:LYS:HG3 | 19       | 8.59          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 7        | 8.59          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 7        | 8.59          |
| (1,3605) | 1:A:17:GLY:HA2 | 1:A:26:CYS:H   | 5        | 8.59          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1 | 14       | 8.59          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2 | 14       | 8.59          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2 | 14       | 8.59          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3 | 14       | 8.59          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H   | 1        | 8.59          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H   | 1        | 8.59          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 1        | 8.59          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 1        | 8.59          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 13       | 8.59          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 13       | 8.59          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1 | 10       | 8.59          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2 | 10       | 8.59          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3 | 10       | 8.59          |
| (1,3141) | 1:A:13:GLY:HA2 | 1:A:28:SER:H   | 17       | 8.59          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 16       | 8.59          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 19       | 8.59          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 4        | 8.59          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 7        | 8.59          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 7        | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 2        | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 2        | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 5        | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 5        | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 10       | 8.59          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 10       | 8.59          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 18       | 8.59          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 18       | 8.59          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE1 | 17       | 8.59          |
| (1,2453) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HE2 | 17       | 8.59          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE1 | 17       | 8.59          |
| (1,2453) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HE2 | 17       | 8.59          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 6        | 8.59          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 6        | 8.59          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 6        | 8.59          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 6        | 8.59          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 10       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 10       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 10       | 8.59          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 10       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 15       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 15       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 15       | 8.59          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 15       | 8.59          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 12       | 8.59          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 12       | 8.59          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE1 | 17       | 8.59          |
| (1,2135) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HE2 | 17       | 8.59          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 11       | 8.59          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 11       | 8.59          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 9        | 8.59          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 9        | 8.59          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 10       | 8.59          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 10       | 8.59          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 13       | 8.59          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 13       | 8.59          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 13       | 8.59          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 13       | 8.59          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 13       | 8.59          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 12       | 8.59          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 18       | 8.59          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 2        | 8.59          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 2        | 8.59          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 12       | 8.59          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 12       | 8.59          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 10       | 8.59          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 11       | 8.59          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 11       | 8.59          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 12       | 8.59          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 7        | 8.59          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 14       | 8.59          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 14       | 8.59          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 9        | 8.59          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 9        | 8.59          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 11       | 8.59          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 12       | 8.58          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 12       | 8.58          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 8        | 8.58          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 19       | 8.58          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 14       | 8.58          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 17       | 8.58          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 12       | 8.58          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 17       | 8.58          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 17       | 8.58          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 14       | 8.58          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 8        | 8.58          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 13       | 8.58          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 5        | 8.58          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 5        | 8.58          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 8        | 8.58          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 8        | 8.58          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 8        | 8.58          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 8        | 8.58          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 19       | 8.58          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 19       | 8.58          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 13       | 8.58          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 13       | 8.58          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 1        | 8.58          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 10       | 8.58          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 6        | 8.58          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 6        | 8.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 9        | 8.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 9        | 8.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 9        | 8.58          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 15       | 8.58          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 8        | 8.58          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 5        | 8.58          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 7        | 8.58          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 12       | 8.58          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 4        | 8.58          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 2        | 8.58          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 2        | 8.58          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 7        | 8.58          |
| (1,3770) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HB2 | 14       | 8.58          |
| (1,3770) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HB2 | 14       | 8.58          |
| (1,3770) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HB2 | 14       | 8.58          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 1        | 8.58          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 1        | 8.58          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 1        | 8.58          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 9        | 8.58          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 9        | 8.58          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 9        | 8.58          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 15       | 8.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3702) | 1:A:18:LEU:HB2 | 1:A:35:HIS:H   | 3        | 8.58          |
| (1,3672) | 1:A:18:LEU:HA  | 1:A:31:LYS:HG3 | 9        | 8.58          |
| (1,3605) | 1:A:17:GLY:HA2 | 1:A:26:CYS:H   | 17       | 8.58          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1 | 5        | 8.58          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2 | 5        | 8.58          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 5        | 8.58          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H   | 16       | 8.58          |
| (1,3295) | 1:A:15:ARG:HB2 | 1:A:21:SER:HG  | 14       | 8.58          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H   | 13       | 8.58          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 15       | 8.58          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 15       | 8.58          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 18       | 8.58          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 18       | 8.58          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 2        | 8.58          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 2        | 8.58          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 10       | 8.58          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 10       | 8.58          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 11       | 8.58          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 6        | 8.58          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 6        | 8.58          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA  | 12       | 8.58          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 4        | 8.58          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 7        | 8.58          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 9        | 8.58          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 10       | 8.58          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 20       | 8.58          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 3        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 3        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 3        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 3        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 5        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 5        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 5        | 8.58          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 5        | 8.58          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H   | 5        | 8.58          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 1        | 8.58          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 13       | 8.58          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 8        | 8.58          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 8        | 8.58          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 1        | 8.58          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 1        | 8.58          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 13       | 8.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 13       | 8.58          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 5        | 8.58          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 15       | 8.58          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 1        | 8.58          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 1        | 8.58          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 13       | 8.58          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 6        | 8.58          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 6        | 8.58          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 13       | 8.58          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 13       | 8.58          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 2        | 8.58          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 10       | 8.58          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 18       | 8.58          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 18       | 8.58          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 19       | 8.58          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 19       | 8.58          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 14       | 8.58          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 12       | 8.58          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 12       | 8.58          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 2        | 8.58          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD2  | 9        | 8.58          |
| (1,1255) | 1:A:4:ASN:HD21 | 1:A:9:PRO:HD3  | 9        | 8.58          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 11       | 8.58          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 9        | 8.58          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 4        | 8.58          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 11       | 8.57          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 19       | 8.57          |
| (1,840)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HD1 | 9        | 8.57          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 6        | 8.57          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 6        | 8.57          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 16       | 8.57          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 4        | 8.57          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 15       | 8.57          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 2        | 8.57          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 13       | 8.57          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 2        | 8.57          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 4        | 8.57          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 5        | 8.57          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 5        | 8.57          |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2 | 1        | 8.57          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE2 | 1        | 8.57          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE3 | 1        | 8.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 1        | 8.57          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 1        | 8.57          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 7        | 8.57          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 7        | 8.57          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 13       | 8.57          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 13       | 8.57          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 16       | 8.57          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 16       | 8.57          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 19       | 8.57          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 20       | 8.57          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 5        | 8.57          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 5        | 8.57          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 5        | 8.57          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 5        | 8.57          |
| (1,4366) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB2 | 15       | 8.57          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 3        | 8.57          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 3        | 8.57          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 5        | 8.57          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 5        | 8.57          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 13       | 8.57          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 4        | 8.57          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 2        | 8.57          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 2        | 8.57          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 19       | 8.57          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 19       | 8.57          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 15       | 8.57          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 9        | 8.57          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 9        | 8.57          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 4        | 8.57          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 4        | 8.57          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 10       | 8.57          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 10       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 16       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 16       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 16       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 16       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 16       | 8.57          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 16       | 8.57          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 7        | 8.57          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 7        | 8.57          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 7        | 8.57          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 18       | 8.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 18       | 8.57          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 18       | 8.57          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 19       | 8.57          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 19       | 8.57          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 19       | 8.57          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 17       | 8.57          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 7        | 8.57          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 8        | 8.57          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2 | 17       | 8.57          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 6        | 8.57          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 6        | 8.57          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 17       | 8.57          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 17       | 8.57          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 9        | 8.57          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 19       | 8.57          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2 | 19       | 8.57          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 20       | 8.57          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE2 | 20       | 8.57          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1 | 2        | 8.57          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2 | 2        | 8.57          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3 | 2        | 8.57          |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H   | 3        | 8.57          |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H   | 15       | 8.57          |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB2 | 12       | 8.57          |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB3 | 12       | 8.57          |
| (1,2780) | 1:A:11:TRP:HE3  | 1:A:15:ARG:H   | 11       | 8.57          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 4        | 8.57          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 4        | 8.57          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 8        | 8.57          |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 2        | 8.57          |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 5        | 8.57          |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 6        | 8.57          |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 13       | 8.57          |
| (1,2655) | 1:A:11:TRP:HB2  | 1:A:23:TYR:H   | 16       | 8.57          |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H   | 16       | 8.57          |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H   | 18       | 8.57          |
| (1,2648) | 1:A:11:TRP:HB2  | 1:A:19:CYS:H   | 19       | 8.57          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1 | 19       | 8.57          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2 | 19       | 8.57          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1 | 6        | 8.57          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2 | 6        | 8.57          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1 | 6        | 8.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2 | 6        | 8.57          |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 7        | 8.57          |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 13       | 8.57          |
| (1,2324) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HA  | 1        | 8.57          |
| (1,2134) | 1:A:8:GLY:HA3   | 1:A:32:TYR:HD1 | 14       | 8.57          |
| (1,2134) | 1:A:8:GLY:HA3   | 1:A:32:TYR:HD2 | 14       | 8.57          |
| (1,2046) | 1:A:8:GLY:H     | 1:A:22:GLN:H   | 1        | 8.57          |
| (1,2008) | 1:A:7:CYS:HB2   | 1:A:29:GLY:H   | 11       | 8.57          |
| (1,2008) | 1:A:7:CYS:HB3   | 1:A:29:GLY:H   | 11       | 8.57          |
| (1,1936) | 1:A:7:CYS:H     | 1:A:18:LEU:H   | 12       | 8.57          |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB2  | 17       | 8.57          |
| (1,1866) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HB3  | 17       | 8.57          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE1 | 20       | 8.57          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE2 | 20       | 8.57          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD1 | 20       | 8.57          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD2 | 20       | 8.57          |
| (1,1286) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HA  | 10       | 8.57          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 18       | 8.57          |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H   | 9        | 8.57          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD1 | 20       | 8.57          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD2 | 20       | 8.57          |
| (1,1006) | 1:A:3:PRO:HD3   | 1:A:13:GLY:H   | 14       | 8.57          |
| (1,932)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HA  | 12       | 8.56          |
| (1,932)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HA  | 12       | 8.56          |
| (1,932)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HA  | 15       | 8.56          |
| (1,932)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HA  | 15       | 8.56          |
| (1,929)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:H   | 20       | 8.56          |
| (1,929)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:H   | 20       | 8.56          |
| (1,842)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE1 | 18       | 8.56          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 3        | 8.56          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 3        | 8.56          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 3        | 8.56          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 3        | 8.56          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 5        | 8.56          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 10       | 8.56          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 10       | 8.56          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 12       | 8.56          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 18       | 8.56          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 12       | 8.56          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 12       | 8.56          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 1        | 8.56          |
| (1,4311) | 1:A:22:GLN:HE22 | 1:A:28:SER:H   | 15       | 8.56          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4254) | 1:A:22:GLN:HG3 | 1:A:27:GLY:H    | 11       | 8.56          |
| (1,3969) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HA   | 2        | 8.56          |
| (1,3969) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HA   | 4        | 8.56          |
| (1,3938) | 1:A:20:CYS:H   | 1:A:31:LYS:HD2  | 14       | 8.56          |
| (1,3938) | 1:A:20:CYS:H   | 1:A:31:LYS:HD3  | 14       | 8.56          |
| (1,3935) | 1:A:20:CYS:H   | 1:A:31:LYS:HB2  | 7        | 8.56          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE1  | 13       | 8.56          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE2  | 13       | 8.56          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE1  | 18       | 8.56          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE2  | 18       | 8.56          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE1  | 19       | 8.56          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE2  | 19       | 8.56          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 12       | 8.56          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 12       | 8.56          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 18       | 8.56          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 18       | 8.56          |
| (1,3870) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HE21 | 8        | 8.56          |
| (1,3870) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HE22 | 8        | 8.56          |
| (1,3756) | 1:A:18:LEU:HG  | 1:A:34:ALA:H    | 5        | 8.56          |
| (1,3756) | 1:A:18:LEU:HG  | 1:A:34:ALA:H    | 6        | 8.56          |
| (1,3748) | 1:A:18:LEU:HG  | 1:A:30:PRO:HA   | 10       | 8.56          |
| (1,3748) | 1:A:18:LEU:HG  | 1:A:30:PRO:HA   | 15       | 8.56          |
| (1,3648) | 1:A:18:LEU:H   | 1:A:25:TYR:HB2  | 5        | 8.56          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1  | 1        | 8.56          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2  | 1        | 8.56          |
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2  | 8        | 8.56          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H    | 11       | 8.56          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 3        | 8.56          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 3        | 8.56          |
| (1,3000) | 1:A:12:GLY:H   | 1:A:21:SER:HG   | 17       | 8.56          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H    | 1        | 8.56          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2  | 3        | 8.56          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3  | 3        | 8.56          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 3        | 8.56          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 3        | 8.56          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1  | 9        | 8.56          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2  | 9        | 8.56          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1  | 20       | 8.56          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2  | 20       | 8.56          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 13       | 8.56          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 13       | 8.56          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 5        | 8.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 5        | 8.56          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 4        | 8.56          |
| (1,2138) | 1:A:8:GLY:HA3  | 1:A:35:HIS:HD2 | 1        | 8.56          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 5        | 8.56          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 2        | 8.56          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 2        | 8.56          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 2        | 8.56          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 2        | 8.56          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 2        | 8.56          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 17       | 8.56          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 5        | 8.56          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 16       | 8.56          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 16       | 8.56          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 13       | 8.56          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 20       | 8.56          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 6        | 8.56          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 16       | 8.56          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 16       | 8.56          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 11       | 8.56          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 1        | 8.56          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2 | 1        | 8.56          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 5        | 8.56          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 12       | 8.56          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 10       | 8.55          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 10       | 8.55          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 7        | 8.55          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2 | 3        | 8.55          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3 | 3        | 8.55          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 16       | 8.55          |
| (1,4670) | 1:A:26:CYS:HB3 | 1:A:31:LYS:H   | 4        | 8.55          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H   | 15       | 8.55          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 5        | 8.55          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 5        | 8.55          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 13       | 8.55          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 13       | 8.55          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 2        | 8.55          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 2        | 8.55          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB2 | 4        | 8.55          |
| (1,4635) | 1:A:26:CYS:HA  | 1:A:30:PRO:HB3 | 4        | 8.55          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 9        | 8.55          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 17       | 8.55          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 17       | 8.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 4        | 8.55          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 4        | 8.55          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 4        | 8.55          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 4        | 8.55          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 12       | 8.55          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 1        | 8.55          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 17       | 8.55          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 14       | 8.55          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA  | 4        | 8.55          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 4        | 8.55          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 8        | 8.55          |
| (1,3969) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HA  | 13       | 8.55          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 20       | 8.55          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 20       | 8.55          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 9        | 8.55          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 9        | 8.55          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 19       | 8.55          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 19       | 8.55          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 4        | 8.55          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 4        | 8.55          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 4        | 8.55          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 13       | 8.55          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 13       | 8.55          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 13       | 8.55          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 20       | 8.55          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 20       | 8.55          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 20       | 8.55          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 7        | 8.55          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 14       | 8.55          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 6        | 8.55          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 6        | 8.55          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 6        | 8.55          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 14       | 8.55          |
| (1,3417) | 1:A:15:ARG:HD2  | 1:A:35:HIS:H   | 9        | 8.55          |
| (1,3417) | 1:A:15:ARG:HD3  | 1:A:35:HIS:H   | 9        | 8.55          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3 | 17       | 8.55          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3 | 17       | 8.55          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 14       | 8.55          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 14       | 8.55          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 12       | 8.55          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 6        | 8.55          |
| (1,3185) | 1:A:14:CYS:H    | 1:A:25:TYR:HE1 | 8        | 8.55          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2  | 8        | 8.55          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1  | 9        | 8.55          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2  | 9        | 8.55          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 4        | 8.55          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 4        | 8.55          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 1        | 8.55          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H    | 18       | 8.55          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 10       | 8.55          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 10       | 8.55          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 15       | 8.55          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 15       | 8.55          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2  | 2        | 8.55          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3  | 2        | 8.55          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2  | 10       | 8.55          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3  | 10       | 8.55          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA   | 9        | 8.55          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2  | 13       | 8.55          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3  | 13       | 8.55          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2  | 12       | 8.55          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 12       | 8.55          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 11       | 8.55          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 11       | 8.55          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 2        | 8.55          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 2        | 8.55          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H    | 10       | 8.55          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H    | 10       | 8.55          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 20       | 8.55          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 20       | 8.55          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA   | 16       | 8.55          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 2        | 8.55          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 2        | 8.55          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1  | 5        | 8.55          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2  | 5        | 8.55          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2  | 11       | 8.55          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3  | 11       | 8.55          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 11       | 8.55          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 15       | 8.55          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 6        | 8.55          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 6        | 8.55          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 12       | 8.55          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 12       | 8.55          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2  | 10       | 8.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA3 | 10       | 8.55          |
| (1,1794) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HA   | 11       | 8.55          |
| (1,1640) | 1:A:6:GLN:HB3   | 1:A:19:CYS:HA  | 13       | 8.55          |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB2 | 1        | 8.55          |
| (1,1632) | 1:A:6:GLN:HB3   | 1:A:15:ARG:HB3 | 1        | 8.55          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB2 | 18       | 8.55          |
| (1,1270) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HB3 | 18       | 8.55          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB2 | 15       | 8.55          |
| (1,1261) | 1:A:4:ASN:HD21  | 1:A:14:CYS:HB3 | 15       | 8.55          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 19       | 8.55          |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H   | 1        | 8.55          |
| (1,1070) | 1:A:4:ASN:H     | 1:A:18:LEU:HG  | 7        | 8.55          |
| (1,929)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:H   | 16       | 8.54          |
| (1,929)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:H   | 16       | 8.54          |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 6        | 8.54          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 14       | 8.54          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 14       | 8.54          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 14       | 8.54          |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1 | 1        | 8.54          |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1 | 9        | 8.54          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 13       | 8.54          |
| (1,4626) | 1:A:26:CYS:H    | 1:A:33:CYS:HB2 | 14       | 8.54          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 3        | 8.54          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 3        | 8.54          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 3        | 8.54          |
| (1,4514) | 1:A:25:TYR:H    | 1:A:31:LYS:H   | 4        | 8.54          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 9        | 8.54          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 17       | 8.54          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 17       | 8.54          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 19       | 8.54          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 19       | 8.54          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 15       | 8.54          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 15       | 8.54          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 10       | 8.54          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 14       | 8.54          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 6        | 8.54          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 13       | 8.54          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 16       | 8.54          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 16       | 8.54          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 17       | 8.54          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 17       | 8.54          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 15       | 8.54          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 15       | 8.54          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 15       | 8.54          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 8        | 8.54          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 5        | 8.54          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 5        | 8.54          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 5        | 8.54          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 14       | 8.54          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 16       | 8.54          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 8        | 8.54          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 8        | 8.54          |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H   | 11       | 8.54          |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H   | 19       | 8.54          |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 7        | 8.54          |
| (1,2869) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HA  | 17       | 8.54          |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 17       | 8.54          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2 | 1        | 8.54          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3 | 1        | 8.54          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 5        | 8.54          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 5        | 8.54          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 16       | 8.54          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 18       | 8.54          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 19       | 8.54          |
| (1,2686) | 1:A:11:TRP:HB3  | 1:A:19:CYS:HA  | 20       | 8.54          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 4        | 8.54          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 6        | 8.54          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD1 | 2        | 8.54          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD2 | 2        | 8.54          |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD1 | 2        | 8.54          |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD2 | 2        | 8.54          |
| (1,2446) | 1:A:9:PRO:HD2   | 1:A:27:GLY:H   | 6        | 8.54          |
| (1,2446) | 1:A:9:PRO:HD3   | 1:A:27:GLY:H   | 6        | 8.54          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1 | 9        | 8.54          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2 | 9        | 8.54          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1 | 9        | 8.54          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2 | 9        | 8.54          |
| (1,2383) | 1:A:9:PRO:HG3   | 1:A:20:CYS:H   | 14       | 8.54          |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 18       | 8.54          |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 19       | 8.54          |
| (1,2220) | 1:A:9:PRO:HB2   | 1:A:24:GLY:H   | 6        | 8.54          |
| (1,2083) | 1:A:8:GLY:HA2   | 1:A:18:LEU:HB2 | 6        | 8.54          |
| (1,2054) | 1:A:8:GLY:H     | 1:A:23:TYR:HD1 | 20       | 8.54          |
| (1,2054) | 1:A:8:GLY:H     | 1:A:23:TYR:HD2 | 20       | 8.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 1        | 8.54          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 1        | 8.54          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 3        | 8.54          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 3        | 8.54          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 8        | 8.54          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 20       | 8.54          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 5        | 8.54          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 5        | 8.54          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 15       | 8.54          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 15       | 8.54          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 12       | 8.54          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 12       | 8.54          |
| (1,1558) | 1:A:6:GLN:HA   | 1:A:15:ARG:HE  | 1        | 8.54          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 19       | 8.54          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 19       | 8.54          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 8        | 8.54          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 12       | 8.53          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 18       | 8.53          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 18       | 8.53          |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 9        | 8.53          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 1        | 8.53          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 1        | 8.53          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 5        | 8.53          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 5        | 8.53          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 16       | 8.53          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 6        | 8.53          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 6        | 8.53          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 6        | 8.53          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 3        | 8.53          |
| (1,4514) | 1:A:25:TYR:H   | 1:A:31:LYS:H   | 2        | 8.53          |
| (1,4437) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HA  | 5        | 8.53          |
| (1,4437) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HA  | 5        | 8.53          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG2 | 4        | 8.53          |
| (1,4424) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HG3 | 4        | 8.53          |
| (1,4424) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HG2 | 4        | 8.53          |
| (1,4424) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HG3 | 4        | 8.53          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 11       | 8.53          |
| (1,4419) | 1:A:23:TYR:HE2 | 1:A:28:SER:H   | 11       | 8.53          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 8        | 8.53          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 8        | 8.53          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 8        | 8.53          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 8        | 8.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG2 | 15       | 8.53          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG3 | 15       | 8.53          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 17       | 8.53          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2 | 17       | 8.53          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB3 | 17       | 8.53          |
| (1,4372) | 1:A:23:TYR:HA  | 1:A:35:HIS:H   | 11       | 8.53          |
| (1,4204) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HB3 | 16       | 8.53          |
| (1,4191) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA3 | 20       | 8.53          |
| (1,4183) | 1:A:22:GLN:HB2 | 1:A:28:SER:H   | 4        | 8.53          |
| (1,3969) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HA  | 15       | 8.53          |
| (1,3938) | 1:A:20:CYS:H   | 1:A:31:LYS:HD2 | 1        | 8.53          |
| (1,3938) | 1:A:20:CYS:H   | 1:A:31:LYS:HD3 | 1        | 8.53          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE1 | 4        | 8.53          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE2 | 4        | 8.53          |
| (1,3908) | 1:A:19:CYS:HB3 | 1:A:35:HIS:HE1 | 15       | 8.53          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE1 | 5        | 8.53          |
| (1,3876) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HE2 | 5        | 8.53          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1 | 6        | 8.53          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2 | 6        | 8.53          |
| (1,3853) | 1:A:19:CYS:HA  | 1:A:22:GLN:HG3 | 4        | 8.53          |
| (1,3719) | 1:A:18:LEU:HB3 | 1:A:30:PRO:HD2 | 9        | 8.53          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1 | 11       | 8.53          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2 | 11       | 8.53          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 10       | 8.53          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 16       | 8.53          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 16       | 8.53          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 9        | 8.53          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 9        | 8.53          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 3        | 8.53          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 4        | 8.53          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 8        | 8.53          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 8        | 8.53          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA  | 12       | 8.53          |
| (1,3192) | 1:A:14:CYS:H   | 1:A:35:HIS:HB2 | 20       | 8.53          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 7        | 8.53          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 7        | 8.53          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 1        | 8.53          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 13       | 8.53          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 13       | 8.53          |
| (1,3070) | 1:A:12:GLY:HA3 | 1:A:27:GLY:H   | 16       | 8.53          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 12       | 8.53          |
| (1,3052) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HG  | 13       | 8.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 13       | 8.53          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2 | 15       | 8.53          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3 | 15       | 8.53          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 20       | 8.53          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 20       | 8.53          |
| (1,2686) | 1:A:11:TRP:HB3 | 1:A:19:CYS:HA  | 7        | 8.53          |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 7        | 8.53          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 7        | 8.53          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 7        | 8.53          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 14       | 8.53          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 14       | 8.53          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 11       | 8.53          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 11       | 8.53          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 4        | 8.53          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 4        | 8.53          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 7        | 8.53          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 7        | 8.53          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 11       | 8.53          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 15       | 8.53          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 6        | 8.53          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE1 | 17       | 8.53          |
| (1,2075) | 1:A:8:GLY:H    | 1:A:32:TYR:HE2 | 17       | 8.53          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 7        | 8.53          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 7        | 8.53          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 7        | 8.53          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 7        | 8.53          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 7        | 8.53          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 7        | 8.53          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 20       | 8.53          |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 20       | 8.53          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 6        | 8.53          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 17       | 8.53          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 1        | 8.53          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 18       | 8.53          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 18       | 8.53          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 2        | 8.53          |
| (1,1195) | 1:A:4:ASN:HB3  | 1:A:12:GLY:H   | 13       | 8.53          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 1        | 8.53          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 1        | 8.53          |
| (1,1070) | 1:A:4:ASN:H    | 1:A:18:LEU:HG  | 20       | 8.53          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 9        | 8.53          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 9        | 8.52          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,929)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:H    | 14       | 8.52          |
| (1,929)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:H    | 14       | 8.52          |
| (1,757)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HG   | 17       | 8.52          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1  | 19       | 8.52          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2  | 19       | 8.52          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1  | 19       | 8.52          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2  | 19       | 8.52          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H    | 4        | 8.52          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H    | 4        | 8.52          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2  | 6        | 8.52          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H    | 15       | 8.52          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H    | 10       | 8.52          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2  | 9        | 8.52          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2  | 9        | 8.52          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2  | 14       | 8.52          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2  | 14       | 8.52          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1  | 7        | 8.52          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2  | 7        | 8.52          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3  | 7        | 8.52          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H    | 6        | 8.52          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 7        | 8.52          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 7        | 8.52          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 11       | 8.52          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 11       | 8.52          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2  | 4        | 8.52          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2  | 4        | 8.52          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3  | 4        | 8.52          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3  | 4        | 8.52          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2  | 14       | 8.52          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3  | 14       | 8.52          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2  | 14       | 8.52          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3  | 14       | 8.52          |
| (1,4392) | 1:A:23:TYR:HB3  | 1:A:35:HIS:HE1  | 9        | 8.52          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H    | 2        | 8.52          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 19       | 8.52          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 2        | 8.52          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 16       | 8.52          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 15       | 8.52          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 9        | 8.52          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 9        | 8.52          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H    | 18       | 8.52          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H    | 18       | 8.52          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 18       | 8.52          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 3        | 8.52          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 3        | 8.52          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 3        | 8.52          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 4        | 8.52          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 4        | 8.52          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 4        | 8.52          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 17       | 8.52          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 1        | 8.52          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 10       | 8.52          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 15       | 8.52          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 15       | 8.52          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB2 | 1        | 8.52          |
| (1,3447) | 1:A:15:ARG:HE   | 1:A:32:TYR:HB3 | 1        | 8.52          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 1        | 8.52          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 5        | 8.52          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 6        | 8.52          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2 | 6        | 8.52          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 1        | 8.52          |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 1        | 8.52          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 5        | 8.52          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 5        | 8.52          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1 | 8        | 8.52          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2 | 8        | 8.52          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD1 | 4        | 8.52          |
| (1,2452) | 1:A:9:PRO:HD2   | 1:A:32:TYR:HD2 | 4        | 8.52          |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD1 | 4        | 8.52          |
| (1,2452) | 1:A:9:PRO:HD3   | 1:A:32:TYR:HD2 | 4        | 8.52          |
| (1,2446) | 1:A:9:PRO:HD2   | 1:A:27:GLY:H   | 3        | 8.52          |
| (1,2446) | 1:A:9:PRO:HD3   | 1:A:27:GLY:H   | 3        | 8.52          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE1 | 5        | 8.52          |
| (1,2441) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HE2 | 5        | 8.52          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE1 | 5        | 8.52          |
| (1,2441) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HE2 | 5        | 8.52          |
| (1,2334) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HD1 | 5        | 8.52          |
| (1,2334) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HD2 | 5        | 8.52          |
| (1,1936) | 1:A:7:CYS:H     | 1:A:18:LEU:H   | 8        | 8.52          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA2 | 16       | 8.52          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA3 | 16       | 8.52          |
| (1,1806) | 1:A:6:GLN:HE21  | 1:A:14:CYS:HB2 | 1        | 8.52          |
| (1,1806) | 1:A:6:GLN:HE21  | 1:A:14:CYS:HB3 | 1        | 8.52          |
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE1 | 9        | 8.52          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1655) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HE2 | 9        | 8.52          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2  | 8        | 8.52          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB3  | 8        | 8.52          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2  | 12       | 8.52          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB3  | 12       | 8.52          |
| (1,1286) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HA  | 5        | 8.52          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 7        | 8.52          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H   | 8        | 8.52          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE1 | 9        | 8.52          |
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 9        | 8.52          |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H   | 15       | 8.52          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD1 | 3        | 8.52          |
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD2 | 3        | 8.52          |
| (1,730)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:HB2 | 3        | 8.51          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 13       | 8.51          |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 10       | 8.51          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 7        | 8.51          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 9        | 8.51          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 19       | 8.51          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 16       | 8.51          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 16       | 8.51          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 16       | 8.51          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 16       | 8.51          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 16       | 8.51          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 16       | 8.51          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 16       | 8.51          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 17       | 8.51          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 20       | 8.51          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 12       | 8.51          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 17       | 8.51          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 10       | 8.51          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 18       | 8.51          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 19       | 8.51          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 20       | 8.51          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 19       | 8.51          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 19       | 8.51          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 5        | 8.51          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 5        | 8.51          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 9        | 8.51          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 20       | 8.51          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 10       | 8.51          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 10       | 8.51          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 10       | 8.51          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 17       | 8.51          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 17       | 8.51          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 17       | 8.51          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 2        | 8.51          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 8.51          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 8.51          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 8.51          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 12       | 8.51          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 9        | 8.51          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 9        | 8.51          |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG  | 7        | 8.51          |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG  | 7        | 8.51          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 17       | 8.51          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 17       | 8.51          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 10       | 8.51          |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H   | 17       | 8.51          |
| (1,3053) | 1:A:12:GLY:HA3  | 1:A:19:CYS:H   | 15       | 8.51          |
| (1,3052) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HG  | 1        | 8.51          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB2 | 17       | 8.51          |
| (1,3008) | 1:A:12:GLY:H    | 1:A:23:TYR:HB3 | 17       | 8.51          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2 | 13       | 8.51          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3 | 13       | 8.51          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 2        | 8.51          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE1 | 5        | 8.51          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE2 | 5        | 8.51          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE1 | 9        | 8.51          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE2 | 9        | 8.51          |
| (1,2332) | 1:A:9:PRO:HG2   | 1:A:25:TYR:H   | 1        | 8.51          |
| (1,2327) | 1:A:9:PRO:HG2   | 1:A:23:TYR:HA  | 12       | 8.51          |
| (1,2220) | 1:A:9:PRO:HB2   | 1:A:24:GLY:H   | 14       | 8.51          |
| (1,2083) | 1:A:8:GLY:HA2   | 1:A:18:LEU:HB2 | 10       | 8.51          |
| (1,1936) | 1:A:7:CYS:H     | 1:A:18:LEU:H   | 13       | 8.51          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA2 | 8        | 8.51          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA3 | 8        | 8.51          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA2 | 18       | 8.51          |
| (1,1899) | 1:A:6:GLN:HE22  | 1:A:27:GLY:HA3 | 18       | 8.51          |
| (1,1895) | 1:A:6:GLN:HE22  | 1:A:23:TYR:HA  | 2        | 8.51          |
| (1,1870) | 1:A:6:GLN:HE22  | 1:A:10:GLY:HA2 | 14       | 8.51          |
| (1,1794) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HA   | 1        | 8.51          |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2 | 14       | 8.51          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2  | 11       | 8.51          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 11       | 8.51          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 18       | 8.51          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 18       | 8.51          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 19       | 8.51          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 19       | 8.51          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 7        | 8.51          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 7        | 8.51          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 8        | 8.51          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 8        | 8.51          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 3        | 8.51          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 3        | 8.51          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 9        | 8.5           |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 9        | 8.5           |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 7        | 8.5           |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 7        | 8.5           |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 19       | 8.5           |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 19       | 8.5           |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 18       | 8.5           |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 20       | 8.5           |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 2        | 8.5           |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 2        | 8.5           |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 8        | 8.5           |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 10       | 8.5           |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1 | 19       | 8.5           |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2 | 19       | 8.5           |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3 | 19       | 8.5           |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 18       | 8.5           |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 18       | 8.5           |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 18       | 8.5           |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 18       | 8.5           |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 3        | 8.5           |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 3        | 8.5           |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 3        | 8.5           |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 3        | 8.5           |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 17       | 8.5           |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 17       | 8.5           |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 17       | 8.5           |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 17       | 8.5           |
| (1,4398) | 1:A:23:TYR:HD1 | 1:A:29:GLY:H   | 14       | 8.5           |
| (1,4398) | 1:A:23:TYR:HD2 | 1:A:29:GLY:H   | 14       | 8.5           |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB2 | 19       | 8.5           |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB2 | 19       | 8.5           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 19       | 8.5           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 19       | 8.5           |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 14       | 8.5           |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 11       | 8.5           |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 10       | 8.5           |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 10       | 8.5           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 2        | 8.5           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 2        | 8.5           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 18       | 8.5           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 18       | 8.5           |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 2        | 8.5           |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 12       | 8.5           |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1 | 10       | 8.5           |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2 | 10       | 8.5           |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 7        | 8.5           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 7        | 8.5           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 7        | 8.5           |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 12       | 8.5           |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 12       | 8.5           |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 12       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 10       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 10       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 10       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 10       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 10       | 8.5           |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 10       | 8.5           |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 3        | 8.5           |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 3        | 8.5           |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 3        | 8.5           |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 10       | 8.5           |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 12       | 8.5           |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 11       | 8.5           |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 11       | 8.5           |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 9        | 8.5           |
| (1,3295) | 1:A:15:ARG:HB2  | 1:A:21:SER:HG  | 1        | 8.5           |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 2        | 8.5           |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 17       | 8.5           |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 2        | 8.5           |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3 | 4        | 8.5           |
| (1,3192) | 1:A:14:CYS:H    | 1:A:35:HIS:HB2 | 1        | 8.5           |
| (1,3112) | 1:A:13:GLY:H    | 1:A:25:TYR:H   | 11       | 8.5           |
| (1,3070) | 1:A:12:GLY:HA3  | 1:A:27:GLY:H   | 7        | 8.5           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 1        | 8.5           |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2 | 11       | 8.5           |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3 | 11       | 8.5           |
| (1,2648) | 1:A:11:TRP:HB2 | 1:A:19:CYS:H   | 17       | 8.5           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 17       | 8.5           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 17       | 8.5           |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 15       | 8.5           |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 15       | 8.5           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 16       | 8.5           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 16       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 13       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 13       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 15       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 15       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 18       | 8.5           |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 18       | 8.5           |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 3        | 8.5           |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 5        | 8.5           |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 9        | 8.5           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA2 | 19       | 8.5           |
| (1,1899) | 1:A:6:GLN:HE22 | 1:A:27:GLY:HA3 | 19       | 8.5           |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 9        | 8.5           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 1        | 8.5           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 1        | 8.5           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 16       | 8.5           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 16       | 8.5           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 19       | 8.5           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 19       | 8.5           |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 11       | 8.5           |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 13       | 8.5           |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 12       | 8.5           |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 12       | 8.5           |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 12       | 8.5           |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 13       | 8.5           |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 14       | 8.5           |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 14       | 8.5           |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 1        | 8.5           |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 1        | 8.5           |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 3        | 8.5           |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 18       | 8.49          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 18       | 8.49          |
| (1,842)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE1 | 9        | 8.49          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD21 | 14       | 8.49          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD22 | 14       | 8.49          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD23 | 14       | 8.49          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 4        | 8.49          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 4        | 8.49          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H    | 18       | 8.49          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H    | 4        | 8.49          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2  | 9        | 8.49          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3  | 9        | 8.49          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA   | 4        | 8.49          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA   | 4        | 8.49          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2  | 10       | 8.49          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3  | 10       | 8.49          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 3        | 8.49          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 3        | 8.49          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3  | 7        | 8.49          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 9        | 8.49          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 9        | 8.49          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H    | 14       | 8.49          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H    | 7        | 8.49          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 13       | 8.49          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H    | 12       | 8.49          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 9        | 8.49          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 17       | 8.49          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 17       | 8.49          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE1  | 2        | 8.49          |
| (1,3876) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HE2  | 2        | 8.49          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 19       | 8.49          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 19       | 8.49          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 19       | 8.49          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 20       | 8.49          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 20       | 8.49          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 20       | 8.49          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2  | 8        | 8.49          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 18       | 8.49          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 19       | 8.49          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 8        | 8.49          |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2  | 2        | 8.49          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 17       | 8.49          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1  | 12       | 8.49          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2  | 12       | 8.49          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 5        | 8.49          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3 | 5        | 8.49          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 15       | 8.49          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 2        | 8.49          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 8        | 8.49          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 13       | 8.49          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB2 | 20       | 8.49          |
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 20       | 8.49          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H   | 14       | 8.49          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 8        | 8.49          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 8        | 8.49          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 19       | 8.49          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 19       | 8.49          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 14       | 8.49          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 10       | 8.49          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 3        | 8.49          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 3        | 8.49          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 6        | 8.49          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 6        | 8.49          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 2        | 8.49          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 8        | 8.49          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 15       | 8.49          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 5        | 8.49          |
| (1,1895) | 1:A:6:GLN:HE22 | 1:A:23:TYR:HA  | 10       | 8.49          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 12       | 8.49          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 12       | 8.49          |
| (1,1803) | 1:A:6:GLN:HE21 | 1:A:13:GLY:H   | 17       | 8.49          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 18       | 8.49          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 18       | 8.49          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2 | 19       | 8.49          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3 | 19       | 8.49          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 15       | 8.49          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 16       | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 7        | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 7        | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 13       | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 13       | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 16       | 8.49          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 16       | 8.49          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 7        | 8.49          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 8        | 8.49          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 20       | 8.49          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 2        | 8.49          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1086) | 1:A:4:ASN:H     | 1:A:23:TYR:HD2 | 2        | 8.49          |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H   | 1        | 8.48          |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H   | 13       | 8.48          |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H   | 15       | 8.48          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB2 | 19       | 8.48          |
| (1,961)  | 1:A:3:PRO:HD2   | 1:A:18:LEU:HB3 | 19       | 8.48          |
| (1,730)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:HB2 | 7        | 8.48          |
| (1,730)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:HB2 | 12       | 8.48          |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 1        | 8.48          |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 4        | 8.48          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H   | 16       | 8.48          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 18       | 8.48          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 18       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 16       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 16       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 18       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 18       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 19       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 19       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB2 | 20       | 8.48          |
| (1,4635) | 1:A:26:CYS:HA   | 1:A:30:PRO:HB3 | 20       | 8.48          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 12       | 8.48          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 12       | 8.48          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 12       | 8.48          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 20       | 8.48          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 2        | 8.48          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 7        | 8.48          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 3        | 8.48          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 16       | 8.48          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 16       | 8.48          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 16       | 8.48          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 16       | 8.48          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 3        | 8.48          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 13       | 8.48          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 13       | 8.48          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 2        | 8.48          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 2        | 8.48          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 3        | 8.48          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 3        | 8.48          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 3        | 8.48          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 3        | 8.48          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 1        | 8.48          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA  | 11       | 8.48          |
| (1,3996) | 1:A:20:CYS:HB3 | 1:A:28:SER:HB3 | 10       | 8.48          |
| (1,3996) | 1:A:20:CYS:HB3 | 1:A:28:SER:HB3 | 14       | 8.48          |
| (1,3979) | 1:A:20:CYS:HB2 | 1:A:35:HIS:H   | 13       | 8.48          |
| (1,3968) | 1:A:20:CYS:HB2 | 1:A:30:PRO:HA  | 7        | 8.48          |
| (1,3861) | 1:A:19:CYS:HA  | 1:A:31:LYS:HB2 | 5        | 8.48          |
| (1,3861) | 1:A:19:CYS:HA  | 1:A:31:LYS:HB2 | 7        | 8.48          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1 | 3        | 8.48          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2 | 3        | 8.48          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1 | 5        | 8.48          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2 | 5        | 8.48          |
| (1,3750) | 1:A:18:LEU:HG  | 1:A:31:LYS:H   | 14       | 8.48          |
| (1,3719) | 1:A:18:LEU:HB3 | 1:A:30:PRO:HD2 | 11       | 8.48          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2 | 20       | 8.48          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 20       | 8.48          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB2 | 14       | 8.48          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB3 | 14       | 8.48          |
| (1,3648) | 1:A:18:LEU:H   | 1:A:25:TYR:HB2 | 7        | 8.48          |
| (1,3605) | 1:A:17:GLY:HA2 | 1:A:26:CYS:H   | 16       | 8.48          |
| (1,3586) | 1:A:17:GLY:H   | 1:A:35:HIS:H   | 8        | 8.48          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1 | 7        | 8.48          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2 | 7        | 8.48          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H   | 14       | 8.48          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H   | 17       | 8.48          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB2 | 20       | 8.48          |
| (1,3134) | 1:A:13:GLY:H   | 1:A:32:TYR:HB3 | 20       | 8.48          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 3        | 8.48          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 4        | 8.48          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 12       | 8.48          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 12       | 8.48          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 18       | 8.48          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 18       | 8.48          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 12       | 8.48          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2 | 20       | 8.48          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3 | 20       | 8.48          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 3        | 8.48          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 3        | 8.48          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 2        | 8.48          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 5        | 8.48          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 6        | 8.48          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 10       | 8.48          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 13       | 8.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2  | 15       | 8.48          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3  | 15       | 8.48          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 12       | 8.48          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 18       | 8.48          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 19       | 8.48          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 1        | 8.48          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 11       | 8.48          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 15       | 8.48          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 15       | 8.48          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 13       | 8.48          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 13       | 8.48          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 16       | 8.48          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 16       | 8.48          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB2  | 20       | 8.48          |
| (1,1681) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HB3  | 20       | 8.48          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H    | 6        | 8.48          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H    | 1        | 8.48          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H    | 15       | 8.48          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H    | 4        | 8.48          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1  | 3        | 8.48          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE2  | 3        | 8.48          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 4        | 8.48          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 4        | 8.48          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H    | 8        | 8.47          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 8        | 8.47          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 8        | 8.47          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 16       | 8.47          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 16       | 8.47          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 8        | 8.47          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 8        | 8.47          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 14       | 8.47          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2  | 9        | 8.47          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2  | 16       | 8.47          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 12       | 8.47          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H    | 6        | 8.47          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H    | 10       | 8.47          |
| (1,4437) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HA   | 16       | 8.47          |
| (1,4437) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HA   | 16       | 8.47          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2  | 11       | 8.47          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2  | 11       | 8.47          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3  | 11       | 8.47          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3  | 11       | 8.47          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 16       | 8.47          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 5        | 8.47          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 5        | 8.47          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 5        | 8.47          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 10       | 8.47          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 4        | 8.47          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 13       | 8.47          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 19       | 8.47          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 5        | 8.47          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 12       | 8.47          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 4        | 8.47          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 4        | 8.47          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 13       | 8.47          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 13       | 8.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 14       | 8.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 14       | 8.47          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 14       | 8.47          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 8        | 8.47          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 8        | 8.47          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 8        | 8.47          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 13       | 8.47          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 8        | 8.47          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 13       | 8.47          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 15       | 8.47          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 5        | 8.47          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 6        | 8.47          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 8        | 8.47          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 20       | 8.47          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 9        | 8.47          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 9        | 8.47          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 5        | 8.47          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 5        | 8.47          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 5        | 8.47          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 14       | 8.47          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 14       | 8.47          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3 | 10       | 8.47          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3 | 10       | 8.47          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3 | 14       | 8.47          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3 | 14       | 8.47          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 8        | 8.47          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 13       | 8.47          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 13       | 8.47          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 10       | 8.47          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 3        | 8.47          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 3        | 8.47          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 4        | 8.47          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 4        | 8.47          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 7        | 8.47          |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 7        | 8.47          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 3        | 8.47          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 6        | 8.47          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 6        | 8.47          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1 | 15       | 8.47          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2 | 15       | 8.47          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3 | 15       | 8.47          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 10       | 8.47          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 11       | 8.47          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 8        | 8.47          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 8        | 8.47          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3 | 5        | 8.47          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3 | 10       | 8.47          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 15       | 8.47          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 15       | 8.47          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 16       | 8.47          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 16       | 8.47          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 2        | 8.47          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 2        | 8.47          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 2        | 8.47          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 2        | 8.47          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 2        | 8.47          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 2        | 8.47          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 8        | 8.47          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 8        | 8.47          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 20       | 8.47          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 20       | 8.47          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 4        | 8.47          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD1 | 17       | 8.47          |
| (1,2328) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HD2 | 17       | 8.47          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 20       | 8.47          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 3        | 8.47          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 4        | 8.47          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H   | 2        | 8.47          |
| (1,2103) | 1:A:8:GLY:HA2  | 1:A:35:HIS:HE1 | 9        | 8.47          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 4        | 8.47          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 7        | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 7        | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 8        | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 8        | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 12       | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 12       | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 18       | 8.47          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 18       | 8.47          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 7        | 8.47          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 20       | 8.47          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 6        | 8.47          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 15       | 8.47          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 15       | 8.47          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 11       | 8.47          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 11       | 8.47          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 16       | 8.47          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 16       | 8.47          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA   | 15       | 8.47          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 14       | 8.47          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 14       | 8.47          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 5        | 8.47          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 10       | 8.47          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 8        | 8.47          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 10       | 8.47          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 10       | 8.47          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 1        | 8.47          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 1        | 8.47          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 4        | 8.47          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 4        | 8.47          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H   | 16       | 8.47          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 16       | 8.47          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 14       | 8.47          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H   | 15       | 8.47          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 17       | 8.47          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 17       | 8.47          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 1        | 8.46          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 1        | 8.46          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 2        | 8.46          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 19       | 8.46          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 1        | 8.46          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 1        | 8.46          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 1        | 8.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 1        | 8.46          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 13       | 8.46          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 13       | 8.46          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 13       | 8.46          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 13       | 8.46          |
| (1,564)  | 1:A:1:SER:HB2   | 1:A:22:GLN:H   | 10       | 8.46          |
| (1,564)  | 1:A:1:SER:HB3   | 1:A:22:GLN:H   | 10       | 8.46          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 16       | 8.46          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 16       | 8.46          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 4        | 8.46          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 5        | 8.46          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 11       | 8.46          |
| (1,4568) | 1:A:25:TYR:HD1  | 1:A:31:LYS:H   | 10       | 8.46          |
| (1,4568) | 1:A:25:TYR:HD2  | 1:A:31:LYS:H   | 10       | 8.46          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 12       | 8.46          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 16       | 8.46          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 16       | 8.46          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 5        | 8.46          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 5        | 8.46          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 5        | 8.46          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 16       | 8.46          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 16       | 8.46          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 13       | 8.46          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 13       | 8.46          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 5        | 8.46          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 17       | 8.46          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 1        | 8.46          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 1        | 8.46          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 3        | 8.46          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 3        | 8.46          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 3        | 8.46          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 3        | 8.46          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 6        | 8.46          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 6        | 8.46          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 14       | 8.46          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 14       | 8.46          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 14       | 8.46          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 14       | 8.46          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 10       | 8.46          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 15       | 8.46          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 15       | 8.46          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 2        | 8.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 2        | 8.46          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 3        | 8.46          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 6        | 8.46          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 3        | 8.46          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 20       | 8.46          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 2        | 8.46          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 11       | 8.46          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 17       | 8.46          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 17       | 8.46          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 9        | 8.46          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 12       | 8.46          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 12       | 8.46          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 9        | 8.46          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 7        | 8.46          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H   | 15       | 8.46          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 9        | 8.46          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 18       | 8.46          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 19       | 8.46          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H   | 20       | 8.46          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 10       | 8.46          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2 | 13       | 8.46          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3 | 13       | 8.46          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 4        | 8.46          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 4        | 8.46          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 19       | 8.46          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 19       | 8.46          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 19       | 8.46          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 19       | 8.46          |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB2 | 8        | 8.46          |
| (1,3280) | 1:A:15:ARG:H    | 1:A:35:HIS:HB3 | 8        | 8.46          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 4        | 8.46          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 5        | 8.46          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1 | 14       | 8.46          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2 | 14       | 8.46          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3 | 14       | 8.46          |
| (1,3112) | 1:A:13:GLY:H    | 1:A:25:TYR:H   | 2        | 8.46          |
| (1,3112) | 1:A:13:GLY:H    | 1:A:25:TYR:H   | 15       | 8.46          |
| (1,3064) | 1:A:12:GLY:HA3  | 1:A:25:TYR:H   | 17       | 8.46          |
| (1,3053) | 1:A:12:GLY:HA3  | 1:A:19:CYS:H   | 17       | 8.46          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2 | 12       | 8.46          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3 | 12       | 8.46          |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB2 | 8        | 8.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2782) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HB3 | 8        | 8.46          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1 | 1        | 8.46          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2 | 1        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB1 | 4        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB2 | 4        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD2  | 1:A:34:ALA:HB3 | 4        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB1 | 4        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB2 | 4        | 8.46          |
| (1,2455) | 1:A:9:PRO:HD3  | 1:A:34:ALA:HB3 | 4        | 8.46          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 11       | 8.46          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 11       | 8.46          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 10       | 8.46          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 8        | 8.46          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 5        | 8.46          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 5        | 8.46          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 9        | 8.46          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 9        | 8.46          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 19       | 8.46          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 19       | 8.46          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 16       | 8.46          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 1        | 8.46          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 1        | 8.46          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 6        | 8.46          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 6        | 8.46          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 7        | 8.46          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 7        | 8.46          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 19       | 8.46          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 19       | 8.46          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 5        | 8.46          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 5        | 8.46          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 3        | 8.46          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 3        | 8.46          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 20       | 8.46          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 4        | 8.46          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2 | 20       | 8.45          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3 | 20       | 8.45          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 13       | 8.45          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 8        | 8.45          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 18       | 8.45          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 20       | 8.45          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 20       | 8.45          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 20       | 8.45          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 20       | 8.45          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2 | 11       | 8.45          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 10       | 8.45          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 9        | 8.45          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 14       | 8.45          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 8        | 8.45          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 9        | 8.45          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 9        | 8.45          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 14       | 8.45          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 14       | 8.45          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 1        | 8.45          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 13       | 8.45          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 5        | 8.45          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 4        | 8.45          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 4        | 8.45          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 4        | 8.45          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 4        | 8.45          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 4        | 8.45          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 4        | 8.45          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 12       | 8.45          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 14       | 8.45          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 2        | 8.45          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 3        | 8.45          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 2        | 8.45          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB2 | 16       | 8.45          |
| (1,4278) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HB3 | 16       | 8.45          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 19       | 8.45          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 15       | 8.45          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 15       | 8.45          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 10       | 8.45          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 10       | 8.45          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 11       | 8.45          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 11       | 8.45          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 6        | 8.45          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 1        | 8.45          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 2        | 8.45          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 5        | 8.45          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 6        | 8.45          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 18       | 8.45          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 19       | 8.45          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 8        | 8.45          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 8        | 8.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3  | 8        | 8.45          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 11       | 8.45          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 17       | 8.45          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 17       | 8.45          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 17       | 8.45          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 17       | 8.45          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 19       | 8.45          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 19       | 8.45          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2  | 4        | 8.45          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2  | 19       | 8.45          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 5        | 8.45          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 20       | 8.45          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 20       | 8.45          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 13       | 8.45          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 13       | 8.45          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 13       | 8.45          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H    | 11       | 8.45          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2  | 20       | 8.45          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3  | 20       | 8.45          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 16       | 8.45          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3  | 9        | 8.45          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 2        | 8.45          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1  | 8        | 8.45          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2  | 8        | 8.45          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1  | 13       | 8.45          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2  | 13       | 8.45          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 18       | 8.45          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H    | 2        | 8.45          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H    | 20       | 8.45          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H    | 16       | 8.45          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2  | 1        | 8.45          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3  | 1        | 8.45          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2  | 18       | 8.45          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3  | 18       | 8.45          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2  | 14       | 8.45          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3  | 14       | 8.45          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 1        | 8.45          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 1        | 8.45          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H    | 1        | 8.45          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H    | 8        | 8.45          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H    | 15       | 8.45          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB2  | 18       | 8.45          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 18       | 8.45          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2  | 19       | 8.45          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 19       | 8.45          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2  | 20       | 8.45          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3  | 20       | 8.45          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1  | 13       | 8.45          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2  | 13       | 8.45          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H    | 6        | 8.45          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 5        | 8.45          |
| (1,2156) | 1:A:9:PRO:HA   | 1:A:20:CYS:H    | 17       | 8.45          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 9        | 8.45          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 9        | 8.45          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2  | 3        | 8.45          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 11       | 8.45          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 11       | 8.45          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 2        | 8.45          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 9        | 8.45          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 10       | 8.45          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 16       | 8.45          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 16       | 8.45          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 16       | 8.45          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 16       | 8.45          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 18       | 8.45          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 19       | 8.45          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 20       | 8.45          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 16       | 8.45          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 16       | 8.45          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2  | 18       | 8.45          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3  | 18       | 8.45          |
| (1,1794) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HA    | 13       | 8.45          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H    | 2        | 8.45          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 6        | 8.45          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 11       | 8.45          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 11       | 8.45          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 5        | 8.45          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 5        | 8.45          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H    | 16       | 8.45          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H    | 18       | 8.45          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 7        | 8.44          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 7        | 8.44          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H     | 4        | 8.44          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H     | 4        | 8.44          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG2 | 20       | 8.44          |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG3 | 20       | 8.44          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 20       | 8.44          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 20       | 8.44          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 18       | 8.44          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 18       | 8.44          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 18       | 8.44          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 18       | 8.44          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 6        | 8.44          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 16       | 8.44          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 16       | 8.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 13       | 8.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 13       | 8.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 13       | 8.44          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 7        | 8.44          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 7        | 8.44          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 7        | 8.44          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 7        | 8.44          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 5        | 8.44          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 11       | 8.44          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 7        | 8.44          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 11       | 8.44          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 3        | 8.44          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 6        | 8.44          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 16       | 8.44          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 16       | 8.44          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2 | 8        | 8.44          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3 | 8        | 8.44          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 2        | 8.44          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 7        | 8.44          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 7        | 8.44          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 3        | 8.44          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 12       | 8.44          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 3        | 8.44          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 7        | 8.44          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 1        | 8.44          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 18       | 8.44          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 14       | 8.44          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 14       | 8.44          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 4        | 8.44          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 10       | 8.44          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 1        | 8.44          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 17       | 8.44          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1  | 20       | 8.44          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2  | 20       | 8.44          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3  | 20       | 8.44          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 8        | 8.44          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 18       | 8.44          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 18       | 8.44          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 18       | 8.44          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 9        | 8.44          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 9        | 8.44          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 9        | 8.44          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 9        | 8.44          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 9        | 8.44          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 9        | 8.44          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 8.44          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 8.44          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 8.44          |
| (1,3605) | 1:A:17:GLY:HA2  | 1:A:26:CYS:H    | 9        | 8.44          |
| (1,3553) | 1:A:17:GLY:H    | 1:A:21:SER:H    | 7        | 8.44          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 3        | 8.44          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 4        | 8.44          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 5        | 8.44          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H    | 6        | 8.44          |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 12       | 8.44          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H    | 6        | 8.44          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA   | 8        | 8.44          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2  | 13       | 8.44          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3  | 13       | 8.44          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2  | 16       | 8.44          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3  | 16       | 8.44          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB2  | 19       | 8.44          |
| (1,3134) | 1:A:13:GLY:H    | 1:A:32:TYR:HB3  | 19       | 8.44          |
| (1,3053) | 1:A:12:GLY:HA3  | 1:A:19:CYS:H    | 9        | 8.44          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2  | 16       | 8.44          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3  | 16       | 8.44          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB2  | 9        | 8.44          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB3  | 9        | 8.44          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2  | 14       | 8.44          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3  | 14       | 8.44          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE21 | 8        | 8.44          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE21 | 8        | 8.44          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE22 | 8        | 8.44          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 8        | 8.44          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1  | 10       | 8.44          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2  | 10       | 8.44          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H    | 2        | 8.44          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2  | 9        | 8.44          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2  | 20       | 8.44          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 12       | 8.44          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 12       | 8.44          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2  | 20       | 8.44          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3  | 20       | 8.44          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H    | 4        | 8.44          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 9        | 8.44          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA   | 16       | 8.44          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H    | 11       | 8.44          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2  | 3        | 8.44          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3  | 3        | 8.44          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2  | 8        | 8.44          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3  | 8        | 8.44          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1  | 10       | 8.44          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2  | 10       | 8.44          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H    | 3        | 8.44          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 2        | 8.44          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 2        | 8.44          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 6        | 8.44          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 6        | 8.44          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2  | 9        | 8.44          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3  | 9        | 8.44          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H    | 17       | 8.44          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 17       | 8.44          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 6        | 8.44          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 6        | 8.44          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 4        | 8.44          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 4        | 8.44          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H    | 6        | 8.44          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB2  | 9        | 8.43          |
| (1,961)  | 1:A:3:PRO:HD2  | 1:A:18:LEU:HB3  | 9        | 8.43          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 20       | 8.43          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 20       | 8.43          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H     | 20       | 8.43          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H     | 20       | 8.43          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2  | 18       | 8.43          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3  | 18       | 8.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 7        | 8.43          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 7        | 8.43          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 7        | 8.43          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 7        | 8.43          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 8        | 8.43          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 8        | 8.43          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2 | 2        | 8.43          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3 | 2        | 8.43          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 18       | 8.43          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 19       | 8.43          |
| (1,4670) | 1:A:26:CYS:HB3  | 1:A:31:LYS:H   | 20       | 8.43          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 10       | 8.43          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 3        | 8.43          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 3        | 8.43          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 3        | 8.43          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 20       | 8.43          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 6        | 8.43          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 8        | 8.43          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 5        | 8.43          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 6        | 8.43          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 2        | 8.43          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 3        | 8.43          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 19       | 8.43          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 19       | 8.43          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 4        | 8.43          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 4        | 8.43          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 8        | 8.43          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 16       | 8.43          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 14       | 8.43          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 13       | 8.43          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 20       | 8.43          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 4        | 8.43          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 4        | 8.43          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 4        | 8.43          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 5        | 8.43          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 3        | 8.43          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 3        | 8.43          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 4        | 8.43          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 4        | 8.43          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 17       | 8.43          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 19       | 8.43          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 19       | 8.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 19       | 8.43          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 13       | 8.43          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 13       | 8.43          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 13       | 8.43          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1 | 3        | 8.43          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2 | 3        | 8.43          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 3        | 8.43          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 20       | 8.43          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 20       | 8.43          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 1        | 8.43          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 1        | 8.43          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 1        | 8.43          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 1        | 8.43          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H   | 3        | 8.43          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 20       | 8.43          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 20       | 8.43          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 5        | 8.43          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 6        | 8.43          |
| (1,2854) | 1:A:11:TRP:HE1 | 1:A:21:SER:H   | 13       | 8.43          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG2 | 12       | 8.43          |
| (1,2728) | 1:A:11:TRP:HD1 | 1:A:15:ARG:HG3 | 12       | 8.43          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 9        | 8.43          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 20       | 8.43          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 11       | 8.43          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 11       | 8.43          |
| (1,2473) | 1:A:10:GLY:H   | 1:A:25:TYR:H   | 17       | 8.43          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 15       | 8.43          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 15       | 8.43          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 3        | 8.43          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H   | 5        | 8.43          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 8        | 8.43          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 14       | 8.43          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 19       | 8.43          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 18       | 8.43          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 18       | 8.43          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 14       | 8.43          |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 14       | 8.43          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 2        | 8.43          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 2        | 8.43          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 9        | 8.43          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 9        | 8.43          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 9        | 8.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 9        | 8.43          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 9        | 8.43          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 9        | 8.43          |
| (1,1972) | 1:A:7:CYS:H    | 1:A:33:CYS:HA  | 7        | 8.43          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 13       | 8.43          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 1        | 8.43          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 9        | 8.43          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 9        | 8.43          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 20       | 8.43          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 20       | 8.43          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 4        | 8.43          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 6        | 8.43          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 10       | 8.43          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 10       | 8.43          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 4        | 8.43          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 12       | 8.43          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 12       | 8.43          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 11       | 8.43          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 14       | 8.43          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 16       | 8.43          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 16       | 8.43          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 13       | 8.43          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 15       | 8.43          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 15       | 8.43          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 14       | 8.43          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 13       | 8.43          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 19       | 8.43          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 3        | 8.43          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 3        | 8.43          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 20       | 8.42          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 16       | 8.42          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 16       | 8.42          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 18       | 8.42          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 18       | 8.42          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 18       | 8.42          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 18       | 8.42          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2 | 10       | 8.42          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 4        | 8.42          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 4        | 8.42          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 7        | 8.42          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 6        | 8.42          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 9        | 8.42          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 4        | 8.42          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 17       | 8.42          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 6        | 8.42          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 6        | 8.42          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 6        | 8.42          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 6        | 8.42          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 5        | 8.42          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 13       | 8.42          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 15       | 8.42          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 16       | 8.42          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 16       | 8.42          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 19       | 8.42          |
| (1,4230) | 1:A:22:GLN:HB3  | 1:A:28:SER:H   | 12       | 8.42          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 2        | 8.42          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 17       | 8.42          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 17       | 8.42          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 8        | 8.42          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 8        | 8.42          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 1        | 8.42          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 1        | 8.42          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 1        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 8        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 8        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 8        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 9        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 9        | 8.42          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 9        | 8.42          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 1        | 8.42          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 1        | 8.42          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 1        | 8.42          |
| (1,3769) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HG2 | 10       | 8.42          |
| (1,3769) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HG2 | 10       | 8.42          |
| (1,3769) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HG2 | 10       | 8.42          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 12       | 8.42          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 12       | 8.42          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 3        | 8.42          |
| (1,3702) | 1:A:18:LEU:HB2  | 1:A:35:HIS:H   | 9        | 8.42          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 7        | 8.42          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 3        | 8.42          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 3        | 8.42          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 20       | 8.42          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 7        | 8.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 6        | 8.42          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 6        | 8.42          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 8        | 8.42          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 8        | 8.42          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 11       | 8.42          |
| (1,2702) | 1:A:11:TRP:HB3 | 1:A:27:GLY:H   | 17       | 8.42          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3 | 14       | 8.42          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 1        | 8.42          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 7        | 8.42          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 7        | 8.42          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 13       | 8.42          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 13       | 8.42          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 12       | 8.42          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 12       | 8.42          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 18       | 8.42          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 18       | 8.42          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 10       | 8.42          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 10       | 8.42          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 2        | 8.42          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 2        | 8.42          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 9        | 8.42          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 11       | 8.42          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 7        | 8.42          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 12       | 8.42          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 16       | 8.42          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 18       | 8.42          |
| (1,2083) | 1:A:8:GLY:HA2  | 1:A:18:LEU:HB2 | 17       | 8.42          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 12       | 8.42          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 12       | 8.42          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 19       | 8.42          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 19       | 8.42          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 4        | 8.42          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 4        | 8.42          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 4        | 8.42          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 4        | 8.42          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 3        | 8.42          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 17       | 8.42          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 17       | 8.42          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 12       | 8.42          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 12       | 8.42          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 7        | 8.42          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 7        | 8.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 8        | 8.42          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 8        | 8.42          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 20       | 8.42          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 9        | 8.42          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1  | 3        | 8.42          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2  | 3        | 8.42          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 14       | 8.42          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 14       | 8.42          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2  | 16       | 8.42          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3  | 16       | 8.42          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H    | 16       | 8.41          |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA   | 19       | 8.41          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA   | 19       | 8.41          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H    | 4        | 8.41          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H    | 4        | 8.41          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 3        | 8.41          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 3        | 8.41          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 3        | 8.41          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2  | 5        | 8.41          |
| (1,730)  | 1:A:2:GLY:HA3  | 1:A:20:CYS:HB2  | 6        | 8.41          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H    | 3        | 8.41          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1  | 11       | 8.41          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1  | 11       | 8.41          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 2        | 8.41          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA   | 3        | 8.41          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2  | 8        | 8.41          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2  | 8        | 8.41          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2  | 11       | 8.41          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2  | 11       | 8.41          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA   | 1        | 8.41          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA   | 1        | 8.41          |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H    | 5        | 8.41          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB2  | 7        | 8.41          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB3  | 7        | 8.41          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1  | 9        | 8.41          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2  | 9        | 8.41          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3  | 9        | 8.41          |
| (1,4477) | 1:A:24:GLY:HA2 | 1:A:32:TYR:H    | 6        | 8.41          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2  | 12       | 8.41          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3  | 12       | 8.41          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2  | 6        | 8.41          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3  | 6        | 8.41          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB2 | 4        | 8.41          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB2 | 4        | 8.41          |
| (1,4400) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HB3 | 4        | 8.41          |
| (1,4400) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HB3 | 4        | 8.41          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 17       | 8.41          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 17       | 8.41          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 17       | 8.41          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 17       | 8.41          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 17       | 8.41          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 17       | 8.41          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 16       | 8.41          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 2        | 8.41          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 18       | 8.41          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 19       | 8.41          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 20       | 8.41          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 2        | 8.41          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 2        | 8.41          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 2        | 8.41          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 14       | 8.41          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 4        | 8.41          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 6        | 8.41          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 18       | 8.41          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 15       | 8.41          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 5        | 8.41          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ1 | 18       | 8.41          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ2 | 18       | 8.41          |
| (1,3971) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HZ3 | 18       | 8.41          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 2        | 8.41          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 2        | 8.41          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 10       | 8.41          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 10       | 8.41          |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1 | 1        | 8.41          |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1 | 1        | 8.41          |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1 | 1        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 8        | 8.41          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 15       | 8.41          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 15       | 8.41          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 15       | 8.41          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 15       | 8.41          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 15       | 8.41          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 15       | 8.41          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 6        | 8.41          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 6        | 8.41          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 6        | 8.41          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 12       | 8.41          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 18       | 8.41          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 19       | 8.41          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 2        | 8.41          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 10       | 8.41          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 2        | 8.41          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 2        | 8.41          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 1        | 8.41          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 1        | 8.41          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 1        | 8.41          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 1        | 8.41          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 18       | 8.41          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 19       | 8.41          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 3        | 8.41          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 3        | 8.41          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1 | 3        | 8.41          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2 | 3        | 8.41          |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 1        | 8.41          |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 15       | 8.41          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 18       | 8.41          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 18       | 8.41          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 19       | 8.41          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 19       | 8.41          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 13       | 8.41          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 18       | 8.41          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 19       | 8.41          |
| (1,2591) | 1:A:11:TRP:H    | 1:A:20:CYS:H   | 11       | 8.41          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB2 | 1        | 8.41          |
| (1,2585) | 1:A:11:TRP:H    | 1:A:18:LEU:HB3 | 1        | 8.41          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2 | 11       | 8.41          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3 | 11       | 8.41          |
| (1,2581) | 1:A:11:TRP:H    | 1:A:15:ARG:HB2 | 19       | 8.41          |
| (1,2581) | 1:A:11:TRP:H    | 1:A:15:ARG:HB3 | 19       | 8.41          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD1 | 16       | 8.41          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD2 | 16       | 8.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 2        | 8.41          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 2        | 8.41          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB2 | 17       | 8.41          |
| (1,2174) | 1:A:9:PRO:HA   | 1:A:26:CYS:HB3 | 17       | 8.41          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 2        | 8.41          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 2        | 8.41          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 8        | 8.41          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 8        | 8.41          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 20       | 8.41          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 20       | 8.41          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 14       | 8.41          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 3        | 8.41          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 16       | 8.41          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 16       | 8.41          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 8        | 8.41          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 14       | 8.41          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 18       | 8.41          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 19       | 8.41          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 9        | 8.41          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 9        | 8.41          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 16       | 8.41          |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 17       | 8.41          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 8        | 8.41          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 8        | 8.41          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 9        | 8.41          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 9        | 8.41          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 20       | 8.41          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 20       | 8.41          |
| (1,1188) | 1:A:4:ASN:HB3  | 1:A:11:TRP:H   | 11       | 8.41          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 20       | 8.41          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 11       | 8.41          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 11       | 8.41          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 14       | 8.41          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 14       | 8.41          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 7        | 8.41          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 5        | 8.41          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 5        | 8.41          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 2        | 8.41          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 2        | 8.41          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 3        | 8.4           |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 3        | 8.4           |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 15       | 8.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 15       | 8.4           |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 19       | 8.4           |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 19       | 8.4           |
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 4        | 8.4           |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 13       | 8.4           |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 6        | 8.4           |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 6        | 8.4           |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 6        | 8.4           |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 6        | 8.4           |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 17       | 8.4           |
| (1,4654) | 1:A:26:CYS:HB2  | 1:A:29:GLY:HA3 | 4        | 8.4           |
| (1,4654) | 1:A:26:CYS:HB2  | 1:A:29:GLY:HA3 | 5        | 8.4           |
| (1,4654) | 1:A:26:CYS:HB2  | 1:A:29:GLY:HA3 | 17       | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 5        | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 9        | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 11       | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 18       | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 19       | 8.4           |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA  | 20       | 8.4           |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 8        | 8.4           |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 8        | 8.4           |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 15       | 8.4           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 20       | 8.4           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 20       | 8.4           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 20       | 8.4           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 20       | 8.4           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 17       | 8.4           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 17       | 8.4           |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 14       | 8.4           |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 4        | 8.4           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 20       | 8.4           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 20       | 8.4           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 3        | 8.4           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 3        | 8.4           |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 9        | 8.4           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 2        | 8.4           |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 2        | 8.4           |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 6        | 8.4           |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 2        | 8.4           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 1        | 8.4           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 1        | 8.4           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 1        | 8.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 1        | 8.4           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 1        | 8.4           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 1        | 8.4           |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 2        | 8.4           |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 2        | 8.4           |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 2        | 8.4           |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 4        | 8.4           |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 2        | 8.4           |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD1 | 14       | 8.4           |
| (1,3682) | 1:A:18:LEU:HB2  | 1:A:23:TYR:HD2 | 14       | 8.4           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 2        | 8.4           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 2        | 8.4           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 4        | 8.4           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 4        | 8.4           |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 16       | 8.4           |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 20       | 8.4           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 10       | 8.4           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 10       | 8.4           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 10       | 8.4           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 20       | 8.4           |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 20       | 8.4           |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 4        | 8.4           |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 5        | 8.4           |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 5        | 8.4           |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 17       | 8.4           |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA  | 14       | 8.4           |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA  | 15       | 8.4           |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3 | 6        | 8.4           |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD1 | 7        | 8.4           |
| (1,3202) | 1:A:14:CYS:HB2  | 1:A:23:TYR:HD2 | 7        | 8.4           |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 12       | 8.4           |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 12       | 8.4           |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 16       | 8.4           |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 16       | 8.4           |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1 | 4        | 8.4           |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2 | 4        | 8.4           |
| (1,3053) | 1:A:12:GLY:HA3  | 1:A:19:CYS:H   | 20       | 8.4           |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB2 | 9        | 8.4           |
| (1,2782) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HB3 | 9        | 8.4           |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 16       | 8.4           |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1 | 11       | 8.4           |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2 | 11       | 8.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 13       | 8.4           |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 13       | 8.4           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 11       | 8.4           |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 11       | 8.4           |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 1        | 8.4           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2 | 7        | 8.4           |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3 | 7        | 8.4           |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 3        | 8.4           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 15       | 8.4           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 15       | 8.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 2        | 8.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 2        | 8.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 4        | 8.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 4        | 8.4           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 2        | 8.4           |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 2        | 8.4           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1 | 11       | 8.4           |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2 | 11       | 8.4           |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 20       | 8.4           |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 8        | 8.4           |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 16       | 8.4           |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA  | 19       | 8.4           |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 18       | 8.4           |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 19       | 8.4           |
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 20       | 8.4           |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 3        | 8.4           |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 2        | 8.4           |
| (1,932)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HA  | 7        | 8.39          |
| (1,932)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HA  | 7        | 8.39          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 10       | 8.39          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 10       | 8.39          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 3        | 8.39          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 3        | 8.39          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 7        | 8.39          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 7        | 8.39          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 18       | 8.39          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 18       | 8.39          |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1 | 18       | 8.39          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1 | 1        | 8.39          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1 | 1        | 8.39          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 1        | 8.39          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 17       | 8.39          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H    | 17       | 8.39          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H    | 3        | 8.39          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H    | 6        | 8.39          |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2  | 17       | 8.39          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2  | 20       | 8.39          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3  | 20       | 8.39          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2  | 7        | 8.39          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2  | 9        | 8.39          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2  | 16       | 8.39          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3  | 1        | 8.39          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3  | 11       | 8.39          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 7        | 8.39          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 18       | 8.39          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 18       | 8.39          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA   | 19       | 8.39          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 5        | 8.39          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 11       | 8.39          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 8        | 8.39          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 13       | 8.39          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3  | 9        | 8.39          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3  | 13       | 8.39          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3  | 17       | 8.39          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 2        | 8.39          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2  | 16       | 8.39          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 4        | 8.39          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 11       | 8.39          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 19       | 8.39          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 19       | 8.39          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 7        | 8.39          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 7        | 8.39          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 7        | 8.39          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 11       | 8.39          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 11       | 8.39          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 11       | 8.39          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 11       | 8.39          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 11       | 8.39          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 11       | 8.39          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA   | 4        | 8.39          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 14       | 8.39          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2  | 18       | 8.39          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG3  | 18       | 8.39          |
| (1,3657) | 1:A:18:LEU:H    | 1:A:30:PRO:HG2  | 19       | 8.39          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 19       | 8.39          |
| (1,3553) | 1:A:17:GLY:H   | 1:A:21:SER:H   | 14       | 8.39          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1 | 1        | 8.39          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2 | 1        | 8.39          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3 | 1        | 8.39          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 18       | 8.39          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 18       | 8.39          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 19       | 8.39          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 19       | 8.39          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 20       | 8.39          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 20       | 8.39          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 20       | 8.39          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 20       | 8.39          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 20       | 8.39          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 9        | 8.39          |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H   | 14       | 8.39          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 14       | 8.39          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 5        | 8.39          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1 | 16       | 8.39          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2 | 16       | 8.39          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 13       | 8.39          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 4        | 8.39          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 4        | 8.39          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 6        | 8.39          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 6        | 8.39          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 12       | 8.39          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 20       | 8.39          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 20       | 8.39          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 7        | 8.39          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 7        | 8.39          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 1        | 8.39          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 1        | 8.39          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 11       | 8.39          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 17       | 8.39          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1 | 4        | 8.39          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2 | 4        | 8.39          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 5        | 8.39          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 5        | 8.39          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 5        | 8.39          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 2        | 8.39          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 3        | 8.39          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 3        | 8.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA   | 7        | 8.39          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA   | 18       | 8.39          |
| (1,1640) | 1:A:6:GLN:HB3  | 1:A:19:CYS:HA   | 20       | 8.39          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 4        | 8.39          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2  | 18       | 8.39          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3  | 18       | 8.39          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA   | 11       | 8.39          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 18       | 8.39          |
| (1,1227) | 1:A:4:ASN:HB3  | 1:A:28:SER:H    | 19       | 8.39          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 1        | 8.39          |
| (1,1135) | 1:A:4:ASN:HB2  | 1:A:15:ARG:H    | 1        | 8.39          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1  | 10       | 8.39          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2  | 10       | 8.39          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3  | 1        | 8.39          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 10       | 8.39          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 10       | 8.39          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H    | 5        | 8.39          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H    | 18       | 8.38          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H    | 2        | 8.38          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H    | 2        | 8.38          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H    | 5        | 8.38          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H    | 5        | 8.38          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H     | 13       | 8.38          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H     | 13       | 8.38          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 4        | 8.38          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 4        | 8.38          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 4        | 8.38          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1  | 17       | 8.38          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2  | 17       | 8.38          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1  | 17       | 8.38          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2  | 17       | 8.38          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1  | 14       | 8.38          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA   | 18       | 8.38          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 3        | 8.38          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 6        | 8.38          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1  | 11       | 8.38          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2  | 11       | 8.38          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3  | 11       | 8.38          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H    | 9        | 8.38          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB2  | 3        | 8.38          |
| (1,4423) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HB2  | 3        | 8.38          |
| (1,4423) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HB3  | 3        | 8.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 3        | 8.38          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG2 | 2        | 8.38          |
| (1,4401) | 1:A:23:TYR:HD1  | 1:A:30:PRO:HG3 | 2        | 8.38          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG2 | 2        | 8.38          |
| (1,4401) | 1:A:23:TYR:HD2  | 1:A:30:PRO:HG3 | 2        | 8.38          |
| (1,4388) | 1:A:23:TYR:HB3  | 1:A:28:SER:H   | 15       | 8.38          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 1        | 8.38          |
| (1,4355) | 1:A:23:TYR:H    | 1:A:33:CYS:HB2 | 11       | 8.38          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 5        | 8.38          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 12       | 8.38          |
| (1,3996) | 1:A:20:CYS:HB3  | 1:A:28:SER:HB3 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 2        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 7        | 8.38          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 7        | 8.38          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 1        | 8.38          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 1        | 8.38          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 13       | 8.38          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 13       | 8.38          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 20       | 8.38          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 2        | 8.38          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 2        | 8.38          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 16       | 8.38          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H   | 5        | 8.38          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H   | 5        | 8.38          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 4        | 8.38          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 4        | 8.38          |
| (1,3177) | 1:A:14:CYS:H    | 1:A:22:GLN:H   | 17       | 8.38          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3 | 6        | 8.38          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 7        | 8.38          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 7        | 8.38          |
| (1,2702) | 1:A:11:TRP:HB3  | 1:A:27:GLY:H   | 7        | 8.38          |
| (1,2591) | 1:A:11:TRP:H    | 1:A:20:CYS:H   | 15       | 8.38          |
| (1,2581) | 1:A:11:TRP:H    | 1:A:15:ARG:HB2 | 7        | 8.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 7        | 8.38          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 14       | 8.38          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 14       | 8.38          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 19       | 8.38          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 19       | 8.38          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 1        | 8.38          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 17       | 8.38          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 6        | 8.38          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 14       | 8.38          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 10       | 8.38          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 10       | 8.38          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 11       | 8.38          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 11       | 8.38          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 19       | 8.38          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 17       | 8.38          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 7        | 8.38          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 13       | 8.38          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 12       | 8.38          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 3        | 8.38          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 17       | 8.38          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 8        | 8.38          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 8        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 1        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 1        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 5        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 5        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 6        | 8.38          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 6        | 8.38          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 7        | 8.37          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 8        | 8.37          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 8        | 8.37          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 16       | 8.37          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 16       | 8.37          |
| (1,564)  | 1:A:1:SER:HB2  | 1:A:22:GLN:H   | 9        | 8.37          |
| (1,564)  | 1:A:1:SER:HB3  | 1:A:22:GLN:H   | 9        | 8.37          |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1 | 5        | 8.37          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 20       | 8.37          |
| (1,4758) | 1:A:28:SER:HB3 | 1:A:35:HIS:HD2 | 12       | 8.37          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 17       | 8.37          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 19       | 8.37          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 20       | 8.37          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 20       | 8.37          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 19       | 8.37          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 11       | 8.37          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 11       | 8.37          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 15       | 8.37          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 15       | 8.37          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3 | 1        | 8.37          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3 | 1        | 8.37          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3 | 11       | 8.37          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3 | 11       | 8.37          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3 | 14       | 8.37          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 12       | 8.37          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 11       | 8.37          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 10       | 8.37          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 10       | 8.37          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 11       | 8.37          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 20       | 8.37          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 20       | 8.37          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 20       | 8.37          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 20       | 8.37          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 11       | 8.37          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 11       | 8.37          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 11       | 8.37          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 11       | 8.37          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 5        | 8.37          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 16       | 8.37          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 2        | 8.37          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 7        | 8.37          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 9        | 8.37          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 19       | 8.37          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 18       | 8.37          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 20       | 8.37          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 1        | 8.37          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 18       | 8.37          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 10       | 8.37          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 10       | 8.37          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 11       | 8.37          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 11       | 8.37          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 7        | 8.37          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 7        | 8.37          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 6        | 8.37          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 20       | 8.37          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 3        | 8.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 3        | 8.37          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H   | 19       | 8.37          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H   | 19       | 8.37          |
| (1,3387) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HA  | 6        | 8.37          |
| (1,3387) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HA  | 6        | 8.37          |
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2 | 7        | 8.37          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H   | 1        | 8.37          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE1 | 14       | 8.37          |
| (1,3185) | 1:A:14:CYS:H   | 1:A:25:TYR:HE2 | 14       | 8.37          |
| (1,3168) | 1:A:13:GLY:HA3 | 1:A:35:HIS:HD2 | 13       | 8.37          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 11       | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 9        | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 9        | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 11       | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 11       | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 15       | 8.37          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 15       | 8.37          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB2 | 17       | 8.37          |
| (1,2585) | 1:A:11:TRP:H   | 1:A:18:LEU:HB3 | 17       | 8.37          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 9        | 8.37          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 9        | 8.37          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 9        | 8.37          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 9        | 8.37          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 13       | 8.37          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 13       | 8.37          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 18       | 8.37          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 18       | 8.37          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 4        | 8.37          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 5        | 8.37          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 5        | 8.37          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 6        | 8.37          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 6        | 8.37          |
| (1,1936) | 1:A:7:CYS:H    | 1:A:18:LEU:H   | 14       | 8.37          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 3        | 8.37          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 3        | 8.37          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 12       | 8.37          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 12       | 8.37          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 5        | 8.37          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 10       | 8.37          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 15       | 8.37          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 15       | 8.37          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 16       | 8.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1639) | 1:A:6:GLN:HB3  | 1:A:19:CYS:H   | 7        | 8.37          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA2 | 19       | 8.37          |
| (1,1367) | 1:A:4:ASN:HD22 | 1:A:27:GLY:HA3 | 19       | 8.37          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 12       | 8.37          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 8        | 8.37          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 16       | 8.37          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 14       | 8.37          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 14       | 8.37          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 6        | 8.37          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 6        | 8.37          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 20       | 8.37          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 19       | 8.36          |
| (1,929)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:H   | 6        | 8.36          |
| (1,929)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:H   | 6        | 8.36          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 17       | 8.36          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 17       | 8.36          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 11       | 8.36          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 4        | 8.36          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 4        | 8.36          |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 8        | 8.36          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 17       | 8.36          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE2 | 20       | 8.36          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE3 | 20       | 8.36          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE2 | 20       | 8.36          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE3 | 20       | 8.36          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 17       | 8.36          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 17       | 8.36          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 8        | 8.36          |
| (1,4541) | 1:A:25:TYR:HB2 | 1:A:35:HIS:H   | 16       | 8.36          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 7        | 8.36          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 1        | 8.36          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 1        | 8.36          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 1        | 8.36          |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2 | 11       | 8.36          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H   | 1        | 8.36          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2 | 1        | 8.36          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3 | 1        | 8.36          |
| (1,4384) | 1:A:23:TYR:HB2 | 1:A:35:HIS:H   | 5        | 8.36          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG2 | 12       | 8.36          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG3 | 12       | 8.36          |
| (1,4357) | 1:A:23:TYR:H   | 1:A:34:ALA:HA  | 10       | 8.36          |
| (1,4355) | 1:A:23:TYR:H   | 1:A:33:CYS:HB2 | 17       | 8.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4347) | 1:A:23:TYR:H   | 1:A:29:GLY:HA3 | 17       | 8.36          |
| (1,4229) | 1:A:22:GLN:HB3 | 1:A:27:GLY:HA2 | 2        | 8.36          |
| (1,4229) | 1:A:22:GLN:HB3 | 1:A:27:GLY:HA2 | 5        | 8.36          |
| (1,4200) | 1:A:22:GLN:HG2 | 1:A:33:CYS:H   | 12       | 8.36          |
| (1,4183) | 1:A:22:GLN:HB2 | 1:A:28:SER:H   | 9        | 8.36          |
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3 | 16       | 8.36          |
| (1,3996) | 1:A:20:CYS:HB3 | 1:A:28:SER:HB3 | 1        | 8.36          |
| (1,3996) | 1:A:20:CYS:HB3 | 1:A:28:SER:HB3 | 11       | 8.36          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE1 | 8        | 8.36          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE2 | 8        | 8.36          |
| (1,3739) | 1:A:18:LEU:HG  | 1:A:24:GLY:HA2 | 5        | 8.36          |
| (1,3739) | 1:A:18:LEU:HG  | 1:A:24:GLY:HA3 | 5        | 8.36          |
| (1,3719) | 1:A:18:LEU:HB3 | 1:A:30:PRO:HD2 | 6        | 8.36          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA  | 1        | 8.36          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA  | 15       | 8.36          |
| (1,3684) | 1:A:18:LEU:HB2 | 1:A:24:GLY:H   | 11       | 8.36          |
| (1,3616) | 1:A:17:GLY:HA2 | 1:A:35:HIS:H   | 18       | 8.36          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3 | 4        | 8.36          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3 | 5        | 8.36          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 16       | 8.36          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 16       | 8.36          |
| (1,3471) | 1:A:16:GLY:H   | 1:A:26:CYS:H   | 16       | 8.36          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 3        | 8.36          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H   | 13       | 8.36          |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H   | 11       | 8.36          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H   | 11       | 8.36          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 4        | 8.36          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 4        | 8.36          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 4        | 8.36          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 4        | 8.36          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 14       | 8.36          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 14       | 8.36          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 14       | 8.36          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 14       | 8.36          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2 | 2        | 8.36          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3 | 2        | 8.36          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 12       | 8.36          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 8        | 8.36          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 9        | 8.36          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 12       | 8.36          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 18       | 8.36          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 19       | 8.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 20       | 8.36          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 17       | 8.36          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 17       | 8.36          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 16       | 8.36          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 18       | 8.36          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H   | 19       | 8.36          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 20       | 8.36          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 20       | 8.36          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 13       | 8.36          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 8        | 8.36          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 8        | 8.36          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2 | 20       | 8.36          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3 | 20       | 8.36          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1 | 15       | 8.36          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2 | 15       | 8.36          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 9        | 8.36          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 9        | 8.36          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 20       | 8.36          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 20       | 8.36          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 16       | 8.36          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 16       | 8.36          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 15       | 8.36          |
| (1,2149) | 1:A:9:PRO:HA   | 1:A:15:ARG:HE  | 7        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 3        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 3        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 3        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 3        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 3        | 8.36          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 3        | 8.36          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 10       | 8.36          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 10       | 8.36          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 12       | 8.36          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 12       | 8.36          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 1        | 8.36          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 20       | 8.36          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 20       | 8.36          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 8        | 8.36          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 4        | 8.36          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 15       | 8.36          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 16       | 8.36          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 16       | 8.36          |
| (1,1156) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HE1 | 4        | 8.36          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 4        | 8.36          |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 11       | 8.35          |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 11       | 8.35          |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 12       | 8.35          |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 12       | 8.35          |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 14       | 8.35          |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 14       | 8.35          |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3 | 17       | 8.35          |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 15       | 8.35          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA  | 1        | 8.35          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 5        | 8.35          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 5        | 8.35          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 13       | 8.35          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 13       | 8.35          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 11       | 8.35          |
| (1,4541) | 1:A:25:TYR:HB2  | 1:A:35:HIS:H   | 20       | 8.35          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 1        | 8.35          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 1        | 8.35          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 10       | 8.35          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 10       | 8.35          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 10       | 8.35          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 9        | 8.35          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 9        | 8.35          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 13       | 8.35          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 9        | 8.35          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 18       | 8.35          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 4        | 8.35          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 9        | 8.35          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 13       | 8.35          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 20       | 8.35          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 20       | 8.35          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 15       | 8.35          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 15       | 8.35          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 9        | 8.35          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 12       | 8.35          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 8        | 8.35          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 4        | 8.35          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 15       | 8.35          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 15       | 8.35          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 20       | 8.35          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 20       | 8.35          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 16       | 8.35          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 5        | 8.35          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 5        | 8.35          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 8        | 8.35          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 13       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 12       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 12       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 12       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 12       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 12       | 8.35          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 12       | 8.35          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA   | 13       | 8.35          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 18       | 8.35          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 18       | 8.35          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1  | 19       | 8.35          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2  | 19       | 8.35          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1  | 20       | 8.35          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2  | 20       | 8.35          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2  | 17       | 8.35          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3  | 17       | 8.35          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H    | 2        | 8.35          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H    | 2        | 8.35          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 5        | 8.35          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 5        | 8.35          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H    | 10       | 8.35          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H    | 10       | 8.35          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA   | 10       | 8.35          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2  | 11       | 8.35          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3  | 11       | 8.35          |
| (1,3329) | 1:A:15:ARG:HB3  | 1:A:21:SER:HB3  | 15       | 8.35          |
| (1,3233) | 1:A:14:CYS:HB3  | 1:A:22:GLN:HA   | 7        | 8.35          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H    | 3        | 8.35          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2  | 4        | 8.35          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3  | 4        | 8.35          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3  | 3        | 8.35          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2  | 8        | 8.35          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3  | 8        | 8.35          |
| (1,2743) | 1:A:11:TRP:HD1  | 1:A:22:GLN:HA   | 17       | 8.35          |
| (1,2591) | 1:A:11:TRP:H    | 1:A:20:CYS:H    | 14       | 8.35          |
| (1,2445) | 1:A:9:PRO:HD2   | 1:A:26:CYS:HB3  | 19       | 8.35          |
| (1,2445) | 1:A:9:PRO:HD3   | 1:A:26:CYS:HB3  | 19       | 8.35          |
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE21 | 17       | 8.35          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE21 | 17       | 8.35          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2439) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HE22 | 17       | 8.35          |
| (1,2439) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HE22 | 17       | 8.35          |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 12       | 8.35          |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 12       | 8.35          |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 18       | 8.35          |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 18       | 8.35          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE1  | 19       | 8.35          |
| (1,2335) | 1:A:9:PRO:HG2   | 1:A:25:TYR:HE2  | 19       | 8.35          |
| (1,2171) | 1:A:9:PRO:HA    | 1:A:25:TYR:HE1  | 17       | 8.35          |
| (1,2171) | 1:A:9:PRO:HA    | 1:A:25:TYR:HE2  | 17       | 8.35          |
| (1,1876) | 1:A:6:GLN:HE22  | 1:A:14:CYS:HB2  | 2        | 8.35          |
| (1,1876) | 1:A:6:GLN:HE22  | 1:A:14:CYS:HB3  | 2        | 8.35          |
| (1,1870) | 1:A:6:GLN:HE22  | 1:A:10:GLY:HA2  | 18       | 8.35          |
| (1,1869) | 1:A:6:GLN:HE22  | 1:A:10:GLY:H    | 4        | 8.35          |
| (1,1647) | 1:A:6:GLN:HB3   | 1:A:22:GLN:H    | 15       | 8.35          |
| (1,1330) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HE1  | 19       | 8.35          |
| (1,1251) | 1:A:4:ASN:HD21  | 1:A:8:GLY:H     | 4        | 8.35          |
| (1,1188) | 1:A:4:ASN:HB3   | 1:A:11:TRP:H    | 13       | 8.35          |
| (1,1152) | 1:A:4:ASN:HB2   | 1:A:23:TYR:H    | 12       | 8.35          |
| (1,1142) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HB3  | 4        | 8.35          |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3  | 4        | 8.34          |
| (1,730)  | 1:A:2:GLY:HA3   | 1:A:20:CYS:HB2  | 14       | 8.34          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2  | 20       | 8.34          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3  | 20       | 8.34          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG   | 3        | 8.34          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 5        | 8.34          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 9        | 8.34          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 3        | 8.34          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 5        | 8.34          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 6        | 8.34          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2  | 5        | 8.34          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2  | 8        | 8.34          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3  | 13       | 8.34          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H    | 10       | 8.34          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H    | 16       | 8.34          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H    | 5        | 8.34          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H    | 5        | 8.34          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H    | 13       | 8.34          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H    | 13       | 8.34          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 15       | 8.34          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA   | 4        | 8.34          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA   | 19       | 8.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 5        | 8.34          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 5        | 8.34          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 10       | 8.34          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 10       | 8.34          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 20       | 8.34          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 19       | 8.34          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 16       | 8.34          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 16       | 8.34          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 7        | 8.34          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA  | 20       | 8.34          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 19       | 8.34          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 8        | 8.34          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 2        | 8.34          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 2        | 8.34          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 2        | 8.34          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 3        | 8.34          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 3        | 8.34          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 3        | 8.34          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 16       | 8.34          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 16       | 8.34          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 5        | 8.34          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE1 | 14       | 8.34          |
| (1,3710) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HE2 | 14       | 8.34          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 20       | 8.34          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 20       | 8.34          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 7        | 8.34          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 6        | 8.34          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 18       | 8.34          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 18       | 8.34          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 18       | 8.34          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 18       | 8.34          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H   | 15       | 8.34          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1 | 16       | 8.34          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2 | 16       | 8.34          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1 | 20       | 8.34          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2 | 20       | 8.34          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 11       | 8.34          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 11       | 8.34          |
| (1,3112) | 1:A:13:GLY:H    | 1:A:25:TYR:H   | 12       | 8.34          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2 | 2        | 8.34          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3 | 2        | 8.34          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2 | 3        | 8.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 3        | 8.34          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 8        | 8.34          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB2 | 1        | 8.34          |
| (1,2733) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HB3 | 1        | 8.34          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG  | 6        | 8.34          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 5        | 8.34          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 5        | 8.34          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 18       | 8.34          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 18       | 8.34          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 1        | 8.34          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 1        | 8.34          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 2        | 8.34          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 5        | 8.34          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 10       | 8.34          |
| (1,2110) | 1:A:8:GLY:HA3  | 1:A:19:CYS:H   | 17       | 8.34          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 8        | 8.34          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 14       | 8.34          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 14       | 8.34          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 16       | 8.34          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 16       | 8.34          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 16       | 8.34          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 16       | 8.34          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H   | 9        | 8.34          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 18       | 8.34          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 18       | 8.34          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 14       | 8.34          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 13       | 8.34          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 13       | 8.34          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 15       | 8.34          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 15       | 8.34          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 3        | 8.33          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 18       | 8.33          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 18       | 8.33          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 2        | 8.33          |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG  | 2        | 8.33          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 6        | 8.33          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA  | 16       | 8.33          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 11       | 8.33          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 11       | 8.33          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 11       | 8.33          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 20       | 8.33          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2 | 20       | 8.33          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3  | 5        | 8.33          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3  | 5        | 8.33          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3  | 13       | 8.33          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3  | 13       | 8.33          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H    | 7        | 8.33          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H    | 14       | 8.33          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1  | 18       | 8.33          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2  | 18       | 8.33          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3  | 18       | 8.33          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H    | 5        | 8.33          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 2        | 8.33          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 2        | 8.33          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2  | 20       | 8.33          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 11       | 8.33          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 11       | 8.33          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA   | 2        | 8.33          |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 1        | 8.33          |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H    | 17       | 8.33          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2  | 9        | 8.33          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3  | 9        | 8.33          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2  | 20       | 8.33          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3  | 20       | 8.33          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 16       | 8.33          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 18       | 8.33          |
| (1,3968) | 1:A:20:CYS:HB2  | 1:A:30:PRO:HA   | 19       | 8.33          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 4        | 8.33          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 4        | 8.33          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 16       | 8.33          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 16       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 13       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 17       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 17       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 17       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 17       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 17       | 8.33          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 17       | 8.33          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2  | 8        | 8.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3739) | 1:A:18:LEU:HG  | 1:A:24:GLY:HA3 | 8        | 8.33          |
| (1,3702) | 1:A:18:LEU:HB2 | 1:A:35:HIS:H   | 20       | 8.33          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA  | 8        | 8.33          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA  | 9        | 8.33          |
| (1,3684) | 1:A:18:LEU:HB2 | 1:A:24:GLY:H   | 13       | 8.33          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG2 | 16       | 8.33          |
| (1,3657) | 1:A:18:LEU:H   | 1:A:30:PRO:HG3 | 16       | 8.33          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE1 | 6        | 8.33          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE2 | 6        | 8.33          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3 | 2        | 8.33          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 18       | 8.33          |
| (1,3485) | 1:A:16:GLY:H   | 1:A:32:TYR:HB2 | 19       | 8.33          |
| (1,3471) | 1:A:16:GLY:H   | 1:A:26:CYS:H   | 7        | 8.33          |
| (1,3471) | 1:A:16:GLY:H   | 1:A:26:CYS:H   | 18       | 8.33          |
| (1,3471) | 1:A:16:GLY:H   | 1:A:26:CYS:H   | 19       | 8.33          |
| (1,3457) | 1:A:16:GLY:H   | 1:A:20:CYS:HB3 | 5        | 8.33          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 15       | 8.33          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 15       | 8.33          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H   | 18       | 8.33          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H   | 19       | 8.33          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 8        | 8.33          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 16       | 8.33          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H   | 3        | 8.33          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 15       | 8.33          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 15       | 8.33          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 1        | 8.33          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2 | 1        | 8.33          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3 | 1        | 8.33          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 8        | 8.33          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 9        | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 1        | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 1        | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 11       | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 11       | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 13       | 8.33          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 13       | 8.33          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2 | 16       | 8.33          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3 | 16       | 8.33          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2 | 18       | 8.33          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3 | 18       | 8.33          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG  | 3        | 8.33          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG  | 4        | 8.33          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 10       | 8.33          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 2        | 8.33          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 3        | 8.33          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 10       | 8.33          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 8        | 8.33          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 8        | 8.33          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 16       | 8.33          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 16       | 8.33          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 5        | 8.33          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 5        | 8.33          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 5        | 8.33          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 5        | 8.33          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 4        | 8.33          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 6        | 8.33          |
| (1,2168) | 1:A:9:PRO:HA   | 1:A:25:TYR:H    | 17       | 8.33          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 7        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 6        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 6        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 6        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 6        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 6        | 8.33          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 6        | 8.33          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 1        | 8.33          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2  | 7        | 8.33          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3  | 7        | 8.33          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2  | 19       | 8.33          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3  | 19       | 8.33          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 14       | 8.33          |
| (1,1647) | 1:A:6:GLN:HB3  | 1:A:22:GLN:H    | 11       | 8.33          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 9        | 8.33          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 20       | 8.33          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 4        | 8.33          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 9        | 8.33          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 9        | 8.33          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 11       | 8.33          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 11       | 8.33          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H     | 2        | 8.32          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H     | 2        | 8.32          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 6        | 8.32          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H    | 3        | 8.32          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H    | 14       | 8.32          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 3        | 8.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 3        | 8.32          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 4        | 8.32          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 4        | 8.32          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 9        | 8.32          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3 | 4        | 8.32          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 11       | 8.32          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 11       | 8.32          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 10       | 8.32          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 19       | 8.32          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2 | 19       | 8.32          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 2        | 8.32          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 2        | 8.32          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 15       | 8.32          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 15       | 8.32          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 9        | 8.32          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 11       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 17       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 17       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 17       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 19       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 19       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 19       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 20       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 20       | 8.32          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 20       | 8.32          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 17       | 8.32          |
| (1,4493) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HG2 | 4        | 8.32          |
| (1,4493) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HG3 | 4        | 8.32          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB2 | 3        | 8.32          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB3 | 3        | 8.32          |
| (1,4475) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HE2 | 4        | 8.32          |
| (1,4475) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HE3 | 4        | 8.32          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H   | 14       | 8.32          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H   | 15       | 8.32          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H   | 18       | 8.32          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H   | 19       | 8.32          |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2 | 7        | 8.32          |
| (1,4451) | 1:A:24:GLY:H   | 1:A:31:LYS:HB2 | 10       | 8.32          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 9        | 8.32          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 9        | 8.32          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 9        | 8.32          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 9        | 8.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 6        | 8.32          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 6        | 8.32          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 6        | 8.32          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 6        | 8.32          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 13       | 8.32          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 14       | 8.32          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 15       | 8.32          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 3        | 8.32          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 3        | 8.32          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 2        | 8.32          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 1        | 8.32          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 1        | 8.32          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 13       | 8.32          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 6        | 8.32          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 17       | 8.32          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 7        | 8.32          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 3        | 8.32          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 13       | 8.32          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 13       | 8.32          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 16       | 8.32          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 16       | 8.32          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 16       | 8.32          |
| (1,3785) | 1:A:18:LEU:HD11 | 1:A:31:LYS:HA  | 14       | 8.32          |
| (1,3785) | 1:A:18:LEU:HD12 | 1:A:31:LYS:HA  | 14       | 8.32          |
| (1,3785) | 1:A:18:LEU:HD13 | 1:A:31:LYS:HA  | 14       | 8.32          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 20       | 8.32          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3 | 1        | 8.32          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 3        | 8.32          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 5        | 8.32          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 11       | 8.32          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 17       | 8.32          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 1        | 8.32          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 17       | 8.32          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 19       | 8.32          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 11       | 8.32          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 11       | 8.32          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 11       | 8.32          |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 17       | 8.32          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 10       | 8.32          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 10       | 8.32          |
| (1,3399) | 1:A:15:ARG:HD2  | 1:A:21:SER:HG  | 19       | 8.32          |
| (1,3399) | 1:A:15:ARG:HD3  | 1:A:21:SER:HG  | 19       | 8.32          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3  | 11       | 8.32          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3  | 11       | 8.32          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3  | 8        | 8.32          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3  | 8        | 8.32          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA2  | 3        | 8.32          |
| (1,3347) | 1:A:15:ARG:HB3 | 1:A:29:GLY:HA3  | 3        | 8.32          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 15       | 8.32          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA   | 1        | 8.32          |
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA   | 13       | 8.32          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3  | 10       | 8.32          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H    | 14       | 8.32          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 15       | 8.32          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 15       | 8.32          |
| (1,3053) | 1:A:12:GLY:HA3 | 1:A:19:CYS:H    | 7        | 8.32          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 4        | 8.32          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 18       | 8.32          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 18       | 8.32          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 14       | 8.32          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 14       | 8.32          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 14       | 8.32          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 2        | 8.32          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 5        | 8.32          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 4        | 8.32          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 5        | 8.32          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB2  | 16       | 8.32          |
| (1,2581) | 1:A:11:TRP:H   | 1:A:15:ARG:HB3  | 16       | 8.32          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE1  | 1        | 8.32          |
| (1,2552) | 1:A:10:GLY:HA3 | 1:A:25:TYR:HE2  | 1        | 8.32          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 8        | 8.32          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 8        | 8.32          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1  | 20       | 8.32          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2  | 20       | 8.32          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 3        | 8.32          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 9        | 8.32          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2  | 10       | 8.32          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3  | 10       | 8.32          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 11       | 8.32          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 11       | 8.32          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1  | 8        | 8.32          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2  | 8        | 8.32          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3  | 8        | 8.32          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1  | 8        | 8.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 8        | 8.32          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 8        | 8.32          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 9        | 8.32          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 9        | 8.32          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 18       | 8.32          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 18       | 8.32          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 7        | 8.32          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 8        | 8.32          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 8        | 8.32          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2 | 8        | 8.32          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 3        | 8.32          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 18       | 8.32          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 6        | 8.32          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 6        | 8.32          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 11       | 8.32          |
| (1,1199) | 1:A:4:ASN:HB3  | 1:A:15:ARG:H   | 11       | 8.32          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 11       | 8.32          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 3        | 8.32          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 15       | 8.32          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 15       | 8.32          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD1 | 15       | 8.32          |
| (1,1086) | 1:A:4:ASN:H    | 1:A:23:TYR:HD2 | 15       | 8.32          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 20       | 8.32          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 20       | 8.32          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 6        | 8.31          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 6        | 8.31          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 9        | 8.31          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 9        | 8.31          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 15       | 8.31          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 12       | 8.31          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 12       | 8.31          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 12       | 8.31          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2 | 12       | 8.31          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 17       | 8.31          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 3        | 8.31          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2 | 6        | 8.31          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2 | 6        | 8.31          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3 | 6        | 8.31          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3 | 6        | 8.31          |
| (1,4568) | 1:A:25:TYR:HD1 | 1:A:31:LYS:H   | 2        | 8.31          |
| (1,4568) | 1:A:25:TYR:HD2 | 1:A:31:LYS:H   | 2        | 8.31          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 12       | 8.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 15       | 8.31          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 18       | 8.31          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 6        | 8.31          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 6        | 8.31          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 6        | 8.31          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 6        | 8.31          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 12       | 8.31          |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 20       | 8.31          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 20       | 8.31          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 20       | 8.31          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 9        | 8.31          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 10       | 8.31          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 10       | 8.31          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 11       | 8.31          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 4        | 8.31          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 4        | 8.31          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 14       | 8.31          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 5        | 8.31          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 5        | 8.31          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 14       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 15       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 15       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 17       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 17       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 18       | 8.31          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 18       | 8.31          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 18       | 8.31          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 19       | 8.31          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 6        | 8.31          |
| (1,3648) | 1:A:18:LEU:H    | 1:A:25:TYR:HB2 | 14       | 8.31          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 12       | 8.31          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 18       | 8.31          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 18       | 8.31          |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 18       | 8.31          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 2        | 8.31          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 2        | 8.31          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 2        | 8.31          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 2        | 8.31          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 12       | 8.31          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 12       | 8.31          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA  | 9        | 8.31          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 12       | 8.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3233) | 1:A:14:CYS:HB3 | 1:A:22:GLN:HA  | 11       | 8.31          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE1 | 13       | 8.31          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE2 | 13       | 8.31          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 20       | 8.31          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 9        | 8.31          |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 20       | 8.31          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2 | 19       | 8.31          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3 | 19       | 8.31          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 14       | 8.31          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 14       | 8.31          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 6        | 8.31          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 7        | 8.31          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 7        | 8.31          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 7        | 8.31          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 7        | 8.31          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 14       | 8.31          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 14       | 8.31          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 14       | 8.31          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3 | 14       | 8.31          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 6        | 8.31          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 16       | 8.31          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 18       | 8.31          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 19       | 8.31          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 20       | 8.31          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 19       | 8.31          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 5        | 8.31          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 5        | 8.31          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 5        | 8.31          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 5        | 8.31          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 5        | 8.31          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 5        | 8.31          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 20       | 8.31          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 20       | 8.31          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 8        | 8.31          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 8        | 8.31          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 7        | 8.31          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 7        | 8.31          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 9        | 8.31          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 9        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 5        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 5        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 6        | 8.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 6        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 8        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 8        | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 19       | 8.31          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 19       | 8.31          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE  | 11       | 8.31          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 18       | 8.31          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 18       | 8.31          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 19       | 8.31          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 19       | 8.31          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA2 | 3        | 8.31          |
| (1,1259) | 1:A:4:ASN:HD21 | 1:A:13:GLY:HA3 | 3        | 8.31          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 20       | 8.31          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 17       | 8.31          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 7        | 8.31          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 7        | 8.31          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 12       | 8.31          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 12       | 8.31          |
| (1,1006) | 1:A:3:PRO:HD3  | 1:A:13:GLY:H   | 10       | 8.31          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2 | 11       | 8.3           |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3 | 11       | 8.3           |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2 | 11       | 8.3           |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3 | 11       | 8.3           |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 1        | 8.3           |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 19       | 8.3           |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 19       | 8.3           |
| (1,627)  | 1:A:2:GLY:H    | 1:A:18:LEU:HG  | 17       | 8.3           |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 2        | 8.3           |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 2        | 8.3           |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG  | 5        | 8.3           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 17       | 8.3           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 17       | 8.3           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 17       | 8.3           |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 16       | 8.3           |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 9        | 8.3           |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 9        | 8.3           |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 8        | 8.3           |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 3        | 8.3           |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 6        | 8.3           |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 10       | 8.3           |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 19       | 8.3           |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 20       | 8.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 2        | 8.3           |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 2        | 8.3           |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 17       | 8.3           |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 8        | 8.3           |
| (1,4468) | 1:A:24:GLY:HA2  | 1:A:28:SER:H   | 9        | 8.3           |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 5        | 8.3           |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 5        | 8.3           |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 4        | 8.3           |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 4        | 8.3           |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 5        | 8.3           |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 13       | 8.3           |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 7        | 8.3           |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 6        | 8.3           |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 6        | 8.3           |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 6        | 8.3           |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 8        | 8.3           |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 17       | 8.3           |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 17       | 8.3           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 5        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 6        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 6        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 6        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 6        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 6        | 8.3           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 6        | 8.3           |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 19       | 8.3           |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 19       | 8.3           |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 16       | 8.3           |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 12       | 8.3           |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 15       | 8.3           |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 3        | 8.3           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD1 | 19       | 8.3           |
| (1,3486) | 1:A:16:GLY:H    | 1:A:32:TYR:HD2 | 19       | 8.3           |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 4        | 8.3           |
| (1,3457) | 1:A:16:GLY:H    | 1:A:20:CYS:HB3 | 14       | 8.3           |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H   | 14       | 8.3           |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 11       | 8.3           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H   | 12       | 8.3           |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H   | 12       | 8.3           |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 3        | 8.3           |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 3        | 8.3           |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 3        | 8.3           |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 3        | 8.3           |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H   | 14       | 8.3           |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H   | 14       | 8.3           |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 20       | 8.3           |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 20       | 8.3           |
| (1,3315) | 1:A:15:ARG:HB2 | 1:A:33:CYS:H   | 1        | 8.3           |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 13       | 8.3           |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H   | 9        | 8.3           |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD1 | 1        | 8.3           |
| (1,3237) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HD2 | 1        | 8.3           |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 15       | 8.3           |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2 | 12       | 8.3           |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3 | 12       | 8.3           |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 18       | 8.3           |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H   | 19       | 8.3           |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 18       | 8.3           |
| (1,2804) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HA  | 19       | 8.3           |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2 | 9        | 8.3           |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3 | 9        | 8.3           |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 5        | 8.3           |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 10       | 8.3           |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 8        | 8.3           |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 4        | 8.3           |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 12       | 8.3           |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 14       | 8.3           |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2 | 18       | 8.3           |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 17       | 8.3           |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 17       | 8.3           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 10       | 8.3           |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 10       | 8.3           |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 20       | 8.3           |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 20       | 8.3           |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 5        | 8.3           |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 8        | 8.3           |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 16       | 8.3           |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 18       | 8.3           |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 18       | 8.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 18       | 8.3           |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 7        | 8.3           |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 7        | 8.3           |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 18       | 8.3           |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 18       | 8.3           |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 11       | 8.3           |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1  | 1        | 8.3           |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2  | 1        | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 7        | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 7        | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 8        | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 8        | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 18       | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 18       | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2   | 19       | 8.3           |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3   | 19       | 8.3           |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H    | 14       | 8.29          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 10       | 8.29          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 10       | 8.29          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 10       | 8.29          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H    | 11       | 8.29          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H    | 11       | 8.29          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA   | 4        | 8.29          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 11       | 8.29          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA   | 16       | 8.29          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA   | 19       | 8.29          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 7        | 8.29          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2  | 19       | 8.29          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2  | 18       | 8.29          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3  | 18       | 8.29          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3  | 7        | 8.29          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3  | 7        | 8.29          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3  | 8        | 8.29          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3  | 8        | 8.29          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB2  | 4        | 8.29          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB3  | 4        | 8.29          |
| (1,4468) | 1:A:24:GLY:HA2 | 1:A:28:SER:H    | 7        | 8.29          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2  | 3        | 8.29          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3  | 3        | 8.29          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2  | 19       | 8.29          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2  | 19       | 8.29          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3  | 19       | 8.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 19       | 8.29          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 14       | 8.29          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3 | 8        | 8.29          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 19       | 8.29          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 4        | 8.29          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 5        | 8.29          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 8        | 8.29          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 18       | 8.29          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 17       | 8.29          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 17       | 8.29          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 4        | 8.29          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 10       | 8.29          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 10       | 8.29          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 7        | 8.29          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 7        | 8.29          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 10       | 8.29          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 10       | 8.29          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 9        | 8.29          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 4        | 8.29          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 4        | 8.29          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 9        | 8.29          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 9        | 8.29          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 9        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1 | 1        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2 | 1        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1 | 1        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2 | 1        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1 | 1        | 8.29          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2 | 1        | 8.29          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 17       | 8.29          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 16       | 8.29          |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1 | 1        | 8.29          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 9        | 8.29          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 9        | 8.29          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 1        | 8.29          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 11       | 8.29          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 13       | 8.29          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 9        | 8.29          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 16       | 8.29          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 3        | 8.29          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 20       | 8.29          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 2        | 8.29          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 2        | 8.29          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H    | 18       | 8.29          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H    | 19       | 8.29          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3  | 17       | 8.29          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H    | 11       | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 9        | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 9        | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 15       | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 15       | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 20       | 8.29          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 20       | 8.29          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H    | 7        | 8.29          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H    | 16       | 8.29          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB2  | 20       | 8.29          |
| (1,2788) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HB3  | 20       | 8.29          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 8        | 8.29          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 9        | 8.29          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H    | 20       | 8.29          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 10       | 8.29          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 10       | 8.29          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 18       | 8.29          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 18       | 8.29          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 8        | 8.29          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 8        | 8.29          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 16       | 8.29          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 16       | 8.29          |
| (1,2390) | 1:A:9:PRO:HG3  | 1:A:23:TYR:H    | 17       | 8.29          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA   | 3        | 8.29          |
| (1,2320) | 1:A:9:PRO:HG2  | 1:A:21:SER:H    | 17       | 8.29          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 7        | 8.29          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 14       | 8.29          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 14       | 8.29          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 14       | 8.29          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 14       | 8.29          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 4        | 8.29          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 4        | 8.29          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 4        | 8.29          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 4        | 8.29          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 17       | 8.29          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 6        | 8.29          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 20       | 8.29          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1  | 3        | 8.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE2 | 3        | 8.29          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE1 | 13       | 8.29          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE2 | 13       | 8.29          |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB2 | 2        | 8.29          |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB3 | 2        | 8.29          |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB2 | 13       | 8.29          |
| (1,1650) | 1:A:6:GLN:HB3   | 1:A:22:GLN:HB3 | 13       | 8.29          |
| (1,1330) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HE1 | 8        | 8.29          |
| (1,1289) | 1:A:4:ASN:HD21  | 1:A:27:GLY:HA2 | 2        | 8.29          |
| (1,1289) | 1:A:4:ASN:HD21  | 1:A:27:GLY:HA3 | 2        | 8.29          |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA2 | 4        | 8.29          |
| (1,1259) | 1:A:4:ASN:HD21  | 1:A:13:GLY:HA3 | 4        | 8.29          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE1 | 19       | 8.29          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE2 | 19       | 8.29          |
| (1,1057) | 1:A:4:ASN:H     | 1:A:9:PRO:HD2  | 16       | 8.29          |
| (1,1057) | 1:A:4:ASN:H     | 1:A:9:PRO:HD3  | 16       | 8.29          |
| (1,1006) | 1:A:3:PRO:HD3   | 1:A:13:GLY:H   | 17       | 8.29          |
| (1,892)  | 1:A:3:PRO:HG2   | 1:A:8:GLY:H    | 5        | 8.28          |
| (1,892)  | 1:A:3:PRO:HG3   | 1:A:8:GLY:H    | 5        | 8.28          |
| (1,694)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:H   | 6        | 8.28          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 1        | 8.28          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 1        | 8.28          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA  | 11       | 8.28          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 7        | 8.28          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 7        | 8.28          |
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3 | 18       | 8.28          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 18       | 8.28          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 18       | 8.28          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 19       | 8.28          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 19       | 8.28          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3 | 14       | 8.28          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3 | 14       | 8.28          |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 12       | 8.28          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 3        | 8.28          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 3        | 8.28          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 19       | 8.28          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 2        | 8.28          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 14       | 8.28          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 14       | 8.28          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 8        | 8.28          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 19       | 8.28          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 19       | 8.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 19       | 8.28          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 4        | 8.28          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 4        | 8.28          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 4        | 8.28          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 4        | 8.28          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 4        | 8.28          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 4        | 8.28          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 7        | 8.28          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 7        | 8.28          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 20       | 8.28          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 20       | 8.28          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 18       | 8.28          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 19       | 8.28          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 18       | 8.28          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 19       | 8.28          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE1 | 16       | 8.28          |
| (1,3581) | 1:A:17:GLY:H    | 1:A:32:TYR:HE2 | 16       | 8.28          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2 | 8        | 8.28          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3 | 8        | 8.28          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 15       | 8.28          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 15       | 8.28          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 4        | 8.28          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 4        | 8.28          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG  | 14       | 8.28          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG  | 14       | 8.28          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1 | 15       | 8.28          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2 | 15       | 8.28          |
| (1,3225) | 1:A:14:CYS:HB2  | 1:A:35:HIS:HE1 | 12       | 8.28          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 10       | 8.28          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 8        | 8.28          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 8        | 8.28          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 11       | 8.28          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 11       | 8.28          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 18       | 8.28          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 18       | 8.28          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 19       | 8.28          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 19       | 8.28          |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 16       | 8.28          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2 | 8        | 8.28          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3 | 8        | 8.28          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2 | 12       | 8.28          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3 | 12       | 8.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG  | 14       | 8.28          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 7        | 8.28          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 16       | 8.28          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 18       | 8.28          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 19       | 8.28          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 19       | 8.28          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 19       | 8.28          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 20       | 8.28          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 20       | 8.28          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 16       | 8.28          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 16       | 8.28          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 16       | 8.28          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3 | 16       | 8.28          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 2        | 8.28          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 9        | 8.28          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 20       | 8.28          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 18       | 8.28          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 18       | 8.28          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 19       | 8.28          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 19       | 8.28          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD2 | 1        | 8.28          |
| (1,1810) | 1:A:6:GLN:HE21 | 1:A:15:ARG:HD3 | 1        | 8.28          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 4        | 8.28          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 4        | 8.28          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 7        | 8.28          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 10       | 8.28          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 10       | 8.28          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 20       | 8.28          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 17       | 8.28          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 16       | 8.28          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 10       | 8.28          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 10       | 8.28          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 13       | 8.28          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 13       | 8.28          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 11       | 8.27          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 7        | 8.27          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 7        | 8.27          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 10       | 8.27          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 18       | 8.27          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 18       | 8.27          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 17       | 8.27          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 5        | 8.27          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2  | 3        | 8.27          |
| (1,4738) | 1:A:28:SER:H    | 1:A:35:HIS:HA   | 7        | 8.27          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 1        | 8.27          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 9        | 8.27          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA   | 20       | 8.27          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA   | 20       | 8.27          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3  | 4        | 8.27          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3  | 4        | 8.27          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3  | 3        | 8.27          |
| (1,4546) | 1:A:25:TYR:HB3  | 1:A:29:GLY:HA3  | 6        | 8.27          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 17       | 8.27          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 17       | 8.27          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H    | 10       | 8.27          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 19       | 8.27          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 19       | 8.27          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 3        | 8.27          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 16       | 8.27          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 16       | 8.27          |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 8        | 8.27          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 8        | 8.27          |
| (1,4347) | 1:A:23:TYR:H    | 1:A:29:GLY:HA3  | 12       | 8.27          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 13       | 8.27          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 7        | 8.27          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 7        | 8.27          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 7        | 8.27          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H    | 11       | 8.27          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 19       | 8.27          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 7        | 8.27          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 8        | 8.27          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 8        | 8.27          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 7        | 8.27          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 7        | 8.27          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 10       | 8.27          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 10       | 8.27          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 10       | 8.27          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 10       | 8.27          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 6        | 8.27          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 3        | 8.27          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 3        | 8.27          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 17       | 8.27          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 17       | 8.27          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 17       | 8.27          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 5        | 8.27          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 5        | 8.27          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 5        | 8.27          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 6        | 8.27          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 6        | 8.27          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 6        | 8.27          |
| (1,3756) | 1:A:18:LEU:HG   | 1:A:34:ALA:H   | 14       | 8.27          |
| (1,3748) | 1:A:18:LEU:HG   | 1:A:30:PRO:HA  | 14       | 8.27          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 7        | 8.27          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 8        | 8.27          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 8        | 8.27          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2 | 17       | 8.27          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 8        | 8.27          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 2        | 8.27          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 8        | 8.27          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 6        | 8.27          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 6        | 8.27          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 16       | 8.27          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 16       | 8.27          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 10       | 8.27          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 10       | 8.27          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 3        | 8.27          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 3        | 8.27          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 18       | 8.27          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 18       | 8.27          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA  | 8        | 8.27          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA  | 12       | 8.27          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 20       | 8.27          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 7        | 8.27          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG  | 13       | 8.27          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 13       | 8.27          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 13       | 8.27          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 7        | 8.27          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 7        | 8.27          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 20       | 8.27          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 20       | 8.27          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1 | 12       | 8.27          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2 | 12       | 8.27          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 2        | 8.27          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 10       | 8.27          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2 | 7        | 8.27          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3 | 7        | 8.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 13       | 8.27          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 13       | 8.27          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 12       | 8.27          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 2        | 8.27          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 2        | 8.27          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 12       | 8.27          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 12       | 8.27          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 9        | 8.27          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 9        | 8.27          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 12       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ1 | 18       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ2 | 18       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HZ3 | 18       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ1 | 18       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ2 | 18       | 8.27          |
| (1,2012) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HZ3 | 18       | 8.27          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 16       | 8.27          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 16       | 8.27          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 4        | 8.27          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 13       | 8.27          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 17       | 8.27          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 17       | 8.27          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 13       | 8.27          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 15       | 8.27          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 15       | 8.27          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 13       | 8.27          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 16       | 8.27          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 4        | 8.27          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 4        | 8.27          |
| (1,892)  | 1:A:3:PRO:HG2  | 1:A:8:GLY:H    | 10       | 8.26          |
| (1,892)  | 1:A:3:PRO:HG3  | 1:A:8:GLY:H    | 10       | 8.26          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 14       | 8.26          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 14       | 8.26          |
| (1,694)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:H   | 5        | 8.26          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 16       | 8.26          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 2        | 8.26          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 1        | 8.26          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2 | 9        | 8.26          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 8        | 8.26          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 9        | 8.26          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 12       | 8.26          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 12       | 8.26          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4618) | 1:A:26:CYS:H    | 1:A:31:LYS:HB3  | 4        | 8.26          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 3        | 8.26          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 3        | 8.26          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 3        | 8.26          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 3        | 8.26          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2  | 18       | 8.26          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2  | 18       | 8.26          |
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA   | 18       | 8.26          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA   | 18       | 8.26          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3  | 3        | 8.26          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3  | 3        | 8.26          |
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3  | 10       | 8.26          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3  | 10       | 8.26          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA   | 3        | 8.26          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 5        | 8.26          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 5        | 8.26          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H    | 6        | 8.26          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 10       | 8.26          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 10       | 8.26          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 19       | 8.26          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 19       | 8.26          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 1        | 8.26          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 1        | 8.26          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3  | 11       | 8.26          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 2        | 8.26          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 4        | 8.26          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 11       | 8.26          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H    | 12       | 8.26          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 2        | 8.26          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 13       | 8.26          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 5        | 8.26          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 5        | 8.26          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2  | 4        | 8.26          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 15       | 8.26          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 15       | 8.26          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 8        | 8.26          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 8        | 8.26          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 17       | 8.26          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 17       | 8.26          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 17       | 8.26          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 16       | 8.26          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 3        | 8.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 3        | 8.26          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 3        | 8.26          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 9        | 8.26          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 9        | 8.26          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 2        | 8.26          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 10       | 8.26          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 20       | 8.26          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 3        | 8.26          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 3        | 8.26          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 8        | 8.26          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 2        | 8.26          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 6        | 8.26          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H   | 8        | 8.26          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H   | 8        | 8.26          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD1 | 11       | 8.26          |
| (1,3303) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HD2 | 11       | 8.26          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 8        | 8.26          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 20       | 8.26          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 8        | 8.26          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 8        | 8.26          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 3        | 8.26          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 4        | 8.26          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H   | 3        | 8.26          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H   | 6        | 8.26          |
| (1,2804) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HA  | 7        | 8.26          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB2 | 9        | 8.26          |
| (1,2788) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HB3 | 9        | 8.26          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 13       | 8.26          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 13       | 8.26          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG2 | 9        | 8.26          |
| (1,2728) | 1:A:11:TRP:HD1  | 1:A:15:ARG:HG3 | 9        | 8.26          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 12       | 8.26          |
| (1,2438) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HG3 | 1        | 8.26          |
| (1,2438) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HG3 | 1        | 8.26          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 12       | 8.26          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 12       | 8.26          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 12       | 8.26          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 12       | 8.26          |
| (1,2383) | 1:A:9:PRO:HG3   | 1:A:20:CYS:H   | 2        | 8.26          |
| (1,2383) | 1:A:9:PRO:HG3   | 1:A:20:CYS:H   | 10       | 8.26          |
| (1,2300) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HH2 | 8        | 8.26          |
| (1,2300) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HH2 | 14       | 8.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 17       | 8.26          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 19       | 8.26          |
| (1,2251) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HH2 | 13       | 8.26          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2 | 19       | 8.26          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2 | 19       | 8.26          |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3 | 19       | 8.26          |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3 | 19       | 8.26          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 10       | 8.26          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 12       | 8.26          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 9        | 8.26          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 18       | 8.26          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 18       | 8.26          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB2 | 13       | 8.26          |
| (1,1632) | 1:A:6:GLN:HB3  | 1:A:15:ARG:HB3 | 13       | 8.26          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 6        | 8.26          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 5        | 8.26          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 5        | 8.26          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 1        | 8.26          |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H    | 1        | 8.26          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD2  | 9        | 8.26          |
| (1,1057) | 1:A:4:ASN:H    | 1:A:9:PRO:HD3  | 9        | 8.26          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 4        | 8.26          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 4        | 8.26          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 4        | 8.25          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 12       | 8.25          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 8        | 8.25          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 8        | 8.25          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 12       | 8.25          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 15       | 8.25          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 4        | 8.25          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 4        | 8.25          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 13       | 8.25          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 15       | 8.25          |
| (1,4618) | 1:A:26:CYS:H   | 1:A:31:LYS:HB3 | 2        | 8.25          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 6        | 8.25          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 6        | 8.25          |
| (1,4546) | 1:A:25:TYR:HB3 | 1:A:29:GLY:HA3 | 4        | 8.25          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 6        | 8.25          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 9        | 8.25          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 13       | 8.25          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 14       | 8.25          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 6        | 8.25          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA   | 2        | 8.25          |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA   | 2        | 8.25          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2  | 7        | 8.25          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 11       | 8.25          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 18       | 8.25          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 18       | 8.25          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 12       | 8.25          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 10       | 8.25          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 10       | 8.25          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 12       | 8.25          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 12       | 8.25          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 2        | 8.25          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 8        | 8.25          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 8        | 8.25          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 17       | 8.25          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 17       | 8.25          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 11       | 8.25          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 11       | 8.25          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 11       | 8.25          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 17       | 8.25          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 17       | 8.25          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 17       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 1        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 1        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 1        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 7        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 7        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 7        | 8.25          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 19       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 19       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 19       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 20       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 20       | 8.25          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 20       | 8.25          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H    | 11       | 8.25          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H    | 11       | 8.25          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H    | 11       | 8.25          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 3        | 8.25          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 3        | 8.25          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 3        | 8.25          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 3        | 8.25          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 3        | 8.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 3        | 8.25          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 7        | 8.25          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 5        | 8.25          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 12       | 8.25          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 12       | 8.25          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 3        | 8.25          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 3        | 8.25          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 17       | 8.25          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 9        | 8.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 18       | 8.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 18       | 8.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB2 | 19       | 8.25          |
| (1,3574) | 1:A:17:GLY:H    | 1:A:30:PRO:HB3 | 19       | 8.25          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 15       | 8.25          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 15       | 8.25          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG  | 1        | 8.25          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H   | 10       | 8.25          |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H   | 14       | 8.25          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2 | 8        | 8.25          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3 | 8        | 8.25          |
| (1,2457) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HE1 | 5        | 8.25          |
| (1,2457) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HE1 | 5        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 7        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 7        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 7        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 7        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 8        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 8        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 8        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 8        | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 18       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 18       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 18       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 18       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 19       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 19       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 19       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 19       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 20       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 20       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 20       | 8.25          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 20       | 8.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 7        | 8.25          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 12       | 8.25          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 16       | 8.25          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 18       | 8.25          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 14       | 8.25          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3  | 6        | 8.25          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2  | 3        | 8.25          |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3  | 3        | 8.25          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 8        | 8.25          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 8        | 8.25          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 8        | 8.25          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 8        | 8.25          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 14       | 8.25          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 1        | 8.25          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 11       | 8.25          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 12       | 8.25          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 14       | 8.25          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2  | 7        | 8.25          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3  | 7        | 8.25          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 17       | 8.25          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 9        | 8.25          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 9        | 8.25          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 12       | 8.25          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 16       | 8.25          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2  | 3        | 8.25          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3  | 3        | 8.25          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA   | 8        | 8.25          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 8        | 8.25          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 14       | 8.25          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 14       | 8.25          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 17       | 8.24          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 17       | 8.24          |
| (1,4738) | 1:A:28:SER:H   | 1:A:35:HIS:HA   | 11       | 8.24          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 1        | 8.24          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3  | 16       | 8.24          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3  | 16       | 8.24          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3  | 19       | 8.24          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3  | 19       | 8.24          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H    | 5        | 8.24          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H    | 7        | 8.24          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H    | 12       | 8.24          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2  | 3        | 8.24          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3  | 3        | 8.24          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2  | 19       | 8.24          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3  | 19       | 8.24          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 2        | 8.24          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 2        | 8.24          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H    | 10       | 8.24          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H    | 10       | 8.24          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2  | 17       | 8.24          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 17       | 8.24          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 17       | 8.24          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 17       | 8.24          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 13       | 8.24          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 13       | 8.24          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 20       | 8.24          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 12       | 8.24          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 14       | 8.24          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2  | 8        | 8.24          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3  | 8        | 8.24          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2  | 11       | 8.24          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1  | 6        | 8.24          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 19       | 8.24          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 16       | 8.24          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 12       | 8.24          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 14       | 8.24          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 16       | 8.24          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 16       | 8.24          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 16       | 8.24          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 16       | 8.24          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 14       | 8.24          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 14       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 12       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 12       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 12       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 18       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 18       | 8.24          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 18       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 20       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 20       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 20       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 20       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 20       | 8.24          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 20       | 8.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA   | 10       | 8.24          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB2  | 1        | 8.24          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB3  | 1        | 8.24          |
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H    | 7        | 8.24          |
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H    | 12       | 8.24          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1  | 13       | 8.24          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2  | 13       | 8.24          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3  | 13       | 8.24          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD1  | 16       | 8.24          |
| (1,3486) | 1:A:16:GLY:H   | 1:A:32:TYR:HD2  | 16       | 8.24          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H    | 10       | 8.24          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H    | 10       | 8.24          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 7        | 8.24          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 7        | 8.24          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H    | 15       | 8.24          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H    | 15       | 8.24          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA   | 20       | 8.24          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 13       | 8.24          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 13       | 8.24          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 14       | 8.24          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 14       | 8.24          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 10       | 8.24          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 10       | 8.24          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 18       | 8.24          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 18       | 8.24          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 12       | 8.24          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 12       | 8.24          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2  | 15       | 8.24          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3  | 15       | 8.24          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 2        | 8.24          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 4        | 8.24          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 5        | 8.24          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 8        | 8.24          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2  | 15       | 8.24          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3  | 15       | 8.24          |
| (1,2655) | 1:A:11:TRP:HB2 | 1:A:23:TYR:H    | 17       | 8.24          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 14       | 8.24          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 14       | 8.24          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 14       | 8.24          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 14       | 8.24          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 7        | 8.24          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 7        | 8.24          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 6        | 8.24          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 5        | 8.24          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD1 | 17       | 8.24          |
| (1,2223) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HD2 | 17       | 8.24          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 9        | 8.24          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 9        | 8.24          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 15       | 8.24          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 13       | 8.24          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 9        | 8.24          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 9        | 8.24          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 14       | 8.24          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 14       | 8.24          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 8        | 8.23          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 8        | 8.23          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 6        | 8.23          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 12       | 8.23          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 12       | 8.23          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 16       | 8.23          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 16       | 8.23          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 13       | 8.23          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 18       | 8.23          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 18       | 8.23          |
| (1,4561) | 1:A:25:TYR:HD1 | 1:A:28:SER:HB3 | 20       | 8.23          |
| (1,4561) | 1:A:25:TYR:HD2 | 1:A:28:SER:HB3 | 20       | 8.23          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 12       | 8.23          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 8        | 8.23          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 11       | 8.23          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 13       | 8.23          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 15       | 8.23          |
| (1,4477) | 1:A:24:GLY:HA2 | 1:A:32:TYR:H   | 4        | 8.23          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 12       | 8.23          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 12       | 8.23          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 12       | 8.23          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 12       | 8.23          |
| (1,4411) | 1:A:23:TYR:HD1 | 1:A:34:ALA:H   | 9        | 8.23          |
| (1,4411) | 1:A:23:TYR:HD2 | 1:A:34:ALA:H   | 9        | 8.23          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB2 | 2        | 8.23          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB2 | 2        | 8.23          |
| (1,4400) | 1:A:23:TYR:HD1 | 1:A:30:PRO:HB3 | 2        | 8.23          |
| (1,4400) | 1:A:23:TYR:HD2 | 1:A:30:PRO:HB3 | 2        | 8.23          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB2 | 18       | 8.23          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB2 | 18       | 8.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3  | 18       | 8.23          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3  | 18       | 8.23          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2  | 15       | 8.23          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3  | 15       | 8.23          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 6        | 8.23          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H    | 7        | 8.23          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 10       | 8.23          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 10       | 8.23          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 4        | 8.23          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 4        | 8.23          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 7        | 8.23          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 7        | 8.23          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 18       | 8.23          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H    | 17       | 8.23          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H    | 17       | 8.23          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H    | 17       | 8.23          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H    | 17       | 8.23          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 5        | 8.23          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 5        | 8.23          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H    | 18       | 8.23          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H    | 19       | 8.23          |
| (1,3485) | 1:A:16:GLY:H    | 1:A:32:TYR:HB2  | 16       | 8.23          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H    | 5        | 8.23          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H    | 8        | 8.23          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H    | 6        | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 1        | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 1        | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 11       | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 11       | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 16       | 8.23          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 16       | 8.23          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2  | 3        | 8.23          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3  | 3        | 8.23          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2  | 19       | 8.23          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3  | 19       | 8.23          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H    | 5        | 8.23          |
| (1,2856) | 1:A:11:TRP:HE1  | 1:A:21:SER:HG   | 17       | 8.23          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3  | 5        | 8.23          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG   | 9        | 8.23          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG   | 20       | 8.23          |
| (1,2597) | 1:A:11:TRP:H    | 1:A:26:CYS:HA   | 10       | 8.23          |
| (1,2438) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HG3  | 18       | 8.23          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 18       | 8.23          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 11       | 8.23          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 11       | 8.23          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 9        | 8.23          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 9        | 8.23          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 9        | 8.23          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3 | 9        | 8.23          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 12       | 8.23          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 9        | 8.23          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 9        | 8.23          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 11       | 8.23          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 11       | 8.23          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 1        | 8.23          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 2        | 8.23          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 18       | 8.23          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 14       | 8.23          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 10       | 8.23          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 3        | 8.23          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 3        | 8.23          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 14       | 8.22          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 12       | 8.22          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 12       | 8.22          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 7        | 8.22          |
| (1,4720) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HB2 | 10       | 8.22          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 2        | 8.22          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 2        | 8.22          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2 | 12       | 8.22          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2 | 12       | 8.22          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3 | 12       | 8.22          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3 | 12       | 8.22          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 16       | 8.22          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2 | 16       | 8.22          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 12       | 8.22          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 1        | 8.22          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 14       | 8.22          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 1        | 8.22          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 9        | 8.22          |
| (1,4477) | 1:A:24:GLY:HA2 | 1:A:32:TYR:H   | 7        | 8.22          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 17       | 8.22          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 17       | 8.22          |
| (1,4411) | 1:A:23:TYR:HD1 | 1:A:34:ALA:H   | 15       | 8.22          |
| (1,4411) | 1:A:23:TYR:HD2 | 1:A:34:ALA:H   | 15       | 8.22          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 9        | 8.22          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 9        | 8.22          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 19       | 8.22          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 16       | 8.22          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 16       | 8.22          |
| (1,4276) | 1:A:22:GLN:HE21 | 1:A:26:CYS:H   | 16       | 8.22          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 2        | 8.22          |
| (1,4258) | 1:A:22:GLN:HG3  | 1:A:29:GLY:H   | 20       | 8.22          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 13       | 8.22          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 13       | 8.22          |
| (1,4183) | 1:A:22:GLN:HB2  | 1:A:28:SER:H   | 14       | 8.22          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 20       | 8.22          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 20       | 8.22          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2 | 10       | 8.22          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 4        | 8.22          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 13       | 8.22          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 13       | 8.22          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 20       | 8.22          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2 | 5        | 8.22          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2 | 6        | 8.22          |
| (1,3508) | 1:A:16:GLY:HA2  | 1:A:26:CYS:H   | 14       | 8.22          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 9        | 8.22          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 12       | 8.22          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 1        | 8.22          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 1        | 8.22          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 4        | 8.22          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 12       | 8.22          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 12       | 8.22          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 2        | 8.22          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 2        | 8.22          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 16       | 8.22          |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 16       | 8.22          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 6        | 8.22          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 18       | 8.22          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 19       | 8.22          |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 3        | 8.22          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2 | 6        | 8.22          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 6        | 8.22          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 2        | 8.22          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 3        | 8.22          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 14       | 8.22          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 14       | 8.22          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 11       | 8.22          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 15       | 8.22          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 2        | 8.22          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG  | 17       | 8.22          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 3        | 8.22          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 12       | 8.22          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 12       | 8.22          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 13       | 8.22          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 13       | 8.22          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 11       | 8.22          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 11       | 8.22          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 13       | 8.22          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 13       | 8.22          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 9        | 8.22          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 9        | 8.22          |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H   | 19       | 8.22          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 2        | 8.22          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 5        | 8.22          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 9        | 8.21          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 9        | 8.21          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 11       | 8.21          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 3        | 8.21          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 3        | 8.21          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 4        | 8.21          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 4        | 8.21          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 16       | 8.21          |
| (1,4630) | 1:A:26:CYS:H   | 1:A:35:HIS:HB2 | 20       | 8.21          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2 | 6        | 8.21          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3 | 6        | 8.21          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2 | 6        | 8.21          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3 | 6        | 8.21          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA  | 13       | 8.21          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA  | 13       | 8.21          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 11       | 8.21          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 17       | 8.21          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 4        | 8.21          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 17       | 8.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 3        | 8.21          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 1        | 8.21          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 1        | 8.21          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 10       | 8.21          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 10       | 8.21          |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 19       | 8.21          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 12       | 8.21          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 12       | 8.21          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 14       | 8.21          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 2        | 8.21          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 2        | 8.21          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 5        | 8.21          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 7        | 8.21          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 13       | 8.21          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 20       | 8.21          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 20       | 8.21          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 15       | 8.21          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 13       | 8.21          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 10       | 8.21          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 10       | 8.21          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3 | 10       | 8.21          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 19       | 8.21          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 14       | 8.21          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 8        | 8.21          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 8        | 8.21          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 8        | 8.21          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 16       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 19       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 19       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 19       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 19       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 19       | 8.21          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 19       | 8.21          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 6        | 8.21          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 8        | 8.21          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 9        | 8.21          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 4        | 8.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3  | 4        | 8.21          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 16       | 8.21          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 2        | 8.21          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 5        | 8.21          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 20       | 8.21          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 20       | 8.21          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1  | 20       | 8.21          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2  | 20       | 8.21          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 4        | 8.21          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 4        | 8.21          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 9        | 8.21          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 9        | 8.21          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 14       | 8.21          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 1        | 8.21          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 1        | 8.21          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 12       | 8.21          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 4        | 8.21          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 5        | 8.21          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 6        | 8.21          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 11       | 8.21          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 11       | 8.21          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 9        | 8.21          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 9        | 8.21          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H    | 3        | 8.21          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H    | 4        | 8.21          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 13       | 8.21          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 13       | 8.21          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 13       | 8.21          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 13       | 8.21          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 8        | 8.21          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 2        | 8.21          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 2        | 8.21          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 6        | 8.21          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 6        | 8.21          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE1  | 15       | 8.21          |
| (1,1655) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HE2  | 15       | 8.21          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 5        | 8.21          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 10       | 8.21          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 17       | 8.21          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 17       | 8.21          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 12       | 8.21          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1  | 5        | 8.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1110) | 1:A:4:ASN:H     | 1:A:32:TYR:HE2 | 5        | 8.21          |
| (1,1087) | 1:A:4:ASN:H     | 1:A:24:GLY:H   | 4        | 8.21          |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB2 | 6        | 8.21          |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB3 | 6        | 8.21          |
| (1,974)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:H   | 3        | 8.2           |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2 | 15       | 8.2           |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3 | 15       | 8.2           |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2 | 15       | 8.2           |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3 | 15       | 8.2           |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3 | 5        | 8.2           |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2 | 17       | 8.2           |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3 | 17       | 8.2           |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 20       | 8.2           |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 13       | 8.2           |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 16       | 8.2           |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2 | 20       | 8.2           |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 13       | 8.2           |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 18       | 8.2           |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 5        | 8.2           |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 5        | 8.2           |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 6        | 8.2           |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 14       | 8.2           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 13       | 8.2           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 13       | 8.2           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 14       | 8.2           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 14       | 8.2           |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 2        | 8.2           |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 11       | 8.2           |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 12       | 8.2           |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 7        | 8.2           |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 7        | 8.2           |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 17       | 8.2           |
| (1,4412) | 1:A:23:TYR:HD1  | 1:A:34:ALA:HA  | 7        | 8.2           |
| (1,4412) | 1:A:23:TYR:HD2  | 1:A:34:ALA:HA  | 7        | 8.2           |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 18       | 8.2           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 6        | 8.2           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 6        | 8.2           |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 13       | 8.2           |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 17       | 8.2           |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 5        | 8.2           |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 8        | 8.2           |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 4        | 8.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 4        | 8.2           |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 4        | 8.2           |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 9        | 8.2           |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 9        | 8.2           |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 9        | 8.2           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2 | 18       | 8.2           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3 | 18       | 8.2           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2 | 18       | 8.2           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3 | 18       | 8.2           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2 | 18       | 8.2           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3 | 18       | 8.2           |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 3        | 8.2           |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 9        | 8.2           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 17       | 8.2           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 17       | 8.2           |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 16       | 8.2           |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 9        | 8.2           |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 5        | 8.2           |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 5        | 8.2           |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 8.2           |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 8.2           |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 15       | 8.2           |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 12       | 8.2           |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 12       | 8.2           |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 18       | 8.2           |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 19       | 8.2           |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA  | 18       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 18       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 18       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 19       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 19       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 20       | 8.2           |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 20       | 8.2           |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG  | 11       | 8.2           |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 5        | 8.2           |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 5        | 8.2           |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA2 | 7        | 8.2           |
| (1,3120) | 1:A:13:GLY:H    | 1:A:27:GLY:HA3 | 7        | 8.2           |
| (1,2854) | 1:A:11:TRP:HE1  | 1:A:21:SER:H   | 17       | 8.2           |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 11       | 8.2           |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 4        | 8.2           |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H   | 3        | 8.2           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 10       | 8.2           |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 14       | 8.2           |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 9        | 8.2           |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 15       | 8.2           |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 15       | 8.2           |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 10       | 8.2           |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 1        | 8.2           |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2  | 15       | 8.2           |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 3        | 8.2           |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 3        | 8.2           |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 3        | 8.2           |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 3        | 8.2           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 13       | 8.2           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 13       | 8.2           |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H    | 20       | 8.2           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 10       | 8.2           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 10       | 8.2           |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H    | 15       | 8.2           |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 11       | 8.2           |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 11       | 8.2           |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA   | 16       | 8.2           |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 9        | 8.2           |
| (1,1251) | 1:A:4:ASN:HD21 | 1:A:8:GLY:H     | 15       | 8.2           |
| (1,1206) | 1:A:4:ASN:HB3  | 1:A:19:CYS:H    | 7        | 8.2           |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H    | 3        | 8.2           |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3  | 16       | 8.2           |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H    | 2        | 8.19          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H     | 15       | 8.19          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 2        | 8.19          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 12       | 8.19          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 12       | 8.19          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H    | 14       | 8.19          |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG   | 4        | 8.19          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1  | 19       | 8.19          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H    | 19       | 8.19          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 17       | 8.19          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3  | 20       | 8.19          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1  | 1        | 8.19          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2  | 1        | 8.19          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3  | 1        | 8.19          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA   | 16       | 8.19          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA   | 16       | 8.19          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4561) | 1:A:25:TYR:HD1  | 1:A:28:SER:HB3 | 12       | 8.19          |
| (1,4561) | 1:A:25:TYR:HD2  | 1:A:28:SER:HB3 | 12       | 8.19          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 5        | 8.19          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 1        | 8.19          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 20       | 8.19          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 20       | 8.19          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 20       | 8.19          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 6        | 8.19          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 7        | 8.19          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 11       | 8.19          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 11       | 8.19          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 16       | 8.19          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 16       | 8.19          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 11       | 8.19          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 3        | 8.19          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 12       | 8.19          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 4        | 8.19          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 16       | 8.19          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 16       | 8.19          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 4        | 8.19          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 10       | 8.19          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 10       | 8.19          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 10       | 8.19          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 11       | 8.19          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 11       | 8.19          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 3        | 8.19          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 3        | 8.19          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 3        | 8.19          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 17       | 8.19          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 17       | 8.19          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 7        | 8.19          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 19       | 8.19          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 8        | 8.19          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 12       | 8.19          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 17       | 8.19          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 17       | 8.19          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 13       | 8.19          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 13       | 8.19          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 17       | 8.19          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 17       | 8.19          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 17       | 8.19          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 1        | 8.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 1        | 8.19          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA   | 6        | 8.19          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H    | 6        | 8.19          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA   | 7        | 8.19          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA   | 19       | 8.19          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE1  | 2        | 8.19          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE2  | 2        | 8.19          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE1  | 10       | 8.19          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE2  | 10       | 8.19          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 8        | 8.19          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 8        | 8.19          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2  | 12       | 8.19          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3  | 12       | 8.19          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H    | 14       | 8.19          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1  | 10       | 8.19          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2  | 10       | 8.19          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 6        | 8.19          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 6        | 8.19          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 14       | 8.19          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 14       | 8.19          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 7        | 8.19          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG   | 16       | 8.19          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 2        | 8.19          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 2        | 8.19          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 4        | 8.19          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 6        | 8.19          |
| (1,2431) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HE   | 7        | 8.19          |
| (1,2431) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HE   | 7        | 8.19          |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 9        | 8.19          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1  | 7        | 8.19          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2  | 7        | 8.19          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 5        | 8.19          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 5        | 8.19          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 5        | 8.19          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 5        | 8.19          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 12       | 8.19          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 12       | 8.19          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 14       | 8.19          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 14       | 8.19          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 5        | 8.19          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 5        | 8.19          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 16       | 8.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 16       | 8.19          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 12       | 8.19          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 12       | 8.19          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 5        | 8.19          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 4        | 8.19          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2 | 11       | 8.18          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3 | 11       | 8.18          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 1        | 8.18          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 11       | 8.18          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 13       | 8.18          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 20       | 8.18          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 20       | 8.18          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 16       | 8.18          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 16       | 8.18          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 16       | 8.18          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2 | 16       | 8.18          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3 | 13       | 8.18          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1 | 13       | 8.18          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA  | 20       | 8.18          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 16       | 8.18          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 18       | 8.18          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 19       | 8.18          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1 | 19       | 8.18          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2 | 19       | 8.18          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3 | 19       | 8.18          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 13       | 8.18          |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2 | 13       | 8.18          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA  | 5        | 8.18          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA  | 5        | 8.18          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA  | 17       | 8.18          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA  | 17       | 8.18          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H   | 5        | 8.18          |
| (1,4531) | 1:A:25:TYR:HA  | 1:A:33:CYS:H   | 2        | 8.18          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 4        | 8.18          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 8        | 8.18          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 10       | 8.18          |
| (1,4481) | 1:A:24:GLY:HA2 | 1:A:33:CYS:H   | 17       | 8.18          |
| (1,4477) | 1:A:24:GLY:HA2 | 1:A:32:TYR:H   | 13       | 8.18          |
| (1,4451) | 1:A:24:GLY:H   | 1:A:31:LYS:HB2 | 12       | 8.18          |
| (1,4411) | 1:A:23:TYR:HD1 | 1:A:34:ALA:H   | 5        | 8.18          |
| (1,4411) | 1:A:23:TYR:HD2 | 1:A:34:ALA:H   | 5        | 8.18          |
| (1,4376) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HB2 | 16       | 8.18          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 18       | 8.18          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 13       | 8.18          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 9        | 8.18          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 2        | 8.18          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 4        | 8.18          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 6        | 8.18          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 16       | 8.18          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA2 | 14       | 8.18          |
| (1,3739) | 1:A:18:LEU:HG   | 1:A:24:GLY:HA3 | 14       | 8.18          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 6        | 8.18          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 15       | 8.18          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 12       | 8.18          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 7        | 8.18          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H   | 19       | 8.18          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H   | 19       | 8.18          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA  | 20       | 8.18          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 10       | 8.18          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 10       | 8.18          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 12       | 8.18          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2 | 11       | 8.18          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 8        | 8.18          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 8        | 8.18          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB1 | 12       | 8.18          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB2 | 12       | 8.18          |
| (1,3167) | 1:A:13:GLY:HA3  | 1:A:34:ALA:HB3 | 12       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 16       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 16       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 18       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 18       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 19       | 8.18          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 19       | 8.18          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3 | 10       | 8.18          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 15       | 8.18          |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 6        | 8.18          |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 10       | 8.18          |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H   | 5        | 8.18          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2 | 11       | 8.18          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3 | 11       | 8.18          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD1 | 13       | 8.18          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD2 | 13       | 8.18          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD1 | 15       | 8.18          |
| (1,2475) | 1:A:10:GLY:H    | 1:A:25:TYR:HD2 | 15       | 8.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 2        | 8.18          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 14       | 8.18          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 3        | 8.18          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 3        | 8.18          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 14       | 8.18          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 14       | 8.18          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 10       | 8.18          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 10       | 8.18          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 1        | 8.18          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 1        | 8.18          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 15       | 8.18          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 15       | 8.18          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 16       | 8.18          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 18       | 8.18          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 6        | 8.18          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 20       | 8.18          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 20       | 8.18          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 20       | 8.18          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 20       | 8.18          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 18       | 8.18          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 7        | 8.18          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB2 | 20       | 8.18          |
| (1,1270) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HB3 | 20       | 8.18          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 6        | 8.18          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 10       | 8.18          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 17       | 8.18          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 14       | 8.18          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 4        | 8.17          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 10       | 8.17          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 16       | 8.17          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 20       | 8.17          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 8        | 8.17          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 19       | 8.17          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 8        | 8.17          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 8        | 8.17          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 18       | 8.17          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 10       | 8.17          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 10       | 8.17          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 14       | 8.17          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 14       | 8.17          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 2        | 8.17          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 18       | 8.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4569) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HA  | 10       | 8.17          |
| (1,4569) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HA  | 10       | 8.17          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 7        | 8.17          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 8        | 8.17          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 13       | 8.17          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 15       | 8.17          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 15       | 8.17          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 15       | 8.17          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 4        | 8.17          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 10       | 8.17          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 10       | 8.17          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 19       | 8.17          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1 | 3        | 8.17          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2 | 3        | 8.17          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 16       | 8.17          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 16       | 8.17          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 13       | 8.17          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 13       | 8.17          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 13       | 8.17          |
| (1,3794) | 1:A:18:LEU:HD11 | 1:A:35:HIS:H   | 20       | 8.17          |
| (1,3794) | 1:A:18:LEU:HD12 | 1:A:35:HIS:H   | 20       | 8.17          |
| (1,3794) | 1:A:18:LEU:HD13 | 1:A:35:HIS:H   | 20       | 8.17          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE1 | 14       | 8.17          |
| (1,3688) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HE2 | 14       | 8.17          |
| (1,3586) | 1:A:17:GLY:H    | 1:A:35:HIS:H   | 12       | 8.17          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 4        | 8.17          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 4        | 8.17          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 1        | 8.17          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2 | 19       | 8.17          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 9        | 8.17          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 9        | 8.17          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 16       | 8.17          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 16       | 8.17          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG  | 15       | 8.17          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 1        | 8.17          |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H   | 5        | 8.17          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 17       | 8.17          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 20       | 8.17          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB2 | 15       | 8.17          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB3 | 15       | 8.17          |
| (1,2445) | 1:A:9:PRO:HD2   | 1:A:26:CYS:HB3 | 15       | 8.17          |
| (1,2445) | 1:A:9:PRO:HD3   | 1:A:26:CYS:HB3 | 15       | 8.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD1 | 9        | 8.17          |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD2 | 9        | 8.17          |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD1 | 14       | 8.17          |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD2 | 14       | 8.17          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2 | 7        | 8.17          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB3 | 7        | 8.17          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB2 | 11       | 8.17          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB3 | 11       | 8.17          |
| (1,1822) | 1:A:6:GLN:HE21  | 1:A:21:SER:H   | 7        | 8.17          |
| (1,1822) | 1:A:6:GLN:HE21  | 1:A:21:SER:H   | 19       | 8.17          |
| (1,1799) | 1:A:6:GLN:HE21  | 1:A:10:GLY:HA2 | 5        | 8.17          |
| (1,1478) | 1:A:5:GLY:HA3   | 1:A:16:GLY:H   | 7        | 8.17          |
| (1,1286) | 1:A:4:ASN:HD21  | 1:A:26:CYS:HA  | 19       | 8.17          |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 9        | 8.17          |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG2 | 14       | 8.16          |
| (1,960)  | 1:A:3:PRO:HD2   | 1:A:15:ARG:HG3 | 14       | 8.16          |
| (1,836)  | 1:A:3:PRO:HB3   | 1:A:7:CYS:H    | 7        | 8.16          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 3        | 8.16          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 3        | 8.16          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 7        | 8.16          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 8.16          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 12       | 8.16          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 12       | 8.16          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 7        | 8.16          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 7        | 8.16          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 4        | 8.16          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 9        | 8.16          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 15       | 8.16          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 3        | 8.16          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 3        | 8.16          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 3        | 8.16          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 3        | 8.16          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 3        | 8.16          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 4        | 8.16          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 4        | 8.16          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 11       | 8.16          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 5        | 8.16          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 13       | 8.16          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 5        | 8.16          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 7        | 8.16          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 10       | 8.16          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 14       | 8.16          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 18       | 8.16          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 5        | 8.16          |
| (1,3768) | 1:A:18:LEU:HD11 | 1:A:22:GLN:HA  | 14       | 8.16          |
| (1,3768) | 1:A:18:LEU:HD12 | 1:A:22:GLN:HA  | 14       | 8.16          |
| (1,3768) | 1:A:18:LEU:HD13 | 1:A:22:GLN:HA  | 14       | 8.16          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 5        | 8.16          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 5        | 8.16          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 10       | 8.16          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 10       | 8.16          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 5        | 8.16          |
| (1,3611) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HB2 | 16       | 8.16          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H   | 20       | 8.16          |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H   | 14       | 8.16          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 13       | 8.16          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 17       | 8.16          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H   | 6        | 8.16          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 13       | 8.16          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 5        | 8.16          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 5        | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 7        | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 7        | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 9        | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 9        | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB2 | 18       | 8.16          |
| (1,3179) | 1:A:14:CYS:H    | 1:A:23:TYR:HB3 | 18       | 8.16          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2 | 13       | 8.16          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3 | 13       | 8.16          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3 | 2        | 8.16          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB2 | 17       | 8.16          |
| (1,2733) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HB3 | 17       | 8.16          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 8        | 8.16          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 15       | 8.16          |
| (1,2126) | 1:A:8:GLY:HA3   | 1:A:27:GLY:H   | 11       | 8.16          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3 | 11       | 8.16          |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD1 | 8        | 8.16          |
| (1,2074) | 1:A:8:GLY:H     | 1:A:32:TYR:HD2 | 8        | 8.16          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2 | 3        | 8.16          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB3 | 3        | 8.16          |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE  | 15       | 8.16          |
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE  | 15       | 8.16          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB2 | 4        | 8.16          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB3 | 4        | 8.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 20       | 8.16          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 20       | 8.16          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB2 | 14       | 8.16          |
| (1,1806) | 1:A:6:GLN:HE21 | 1:A:14:CYS:HB3 | 14       | 8.16          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 19       | 8.16          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 16       | 8.16          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 16       | 8.16          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 9        | 8.16          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 9        | 8.16          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 15       | 8.16          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 11       | 8.16          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 12       | 8.16          |
| (1,1087) | 1:A:4:ASN:H    | 1:A:24:GLY:H   | 6        | 8.16          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 3        | 8.16          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 17       | 8.16          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 3        | 8.15          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 5        | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 8        | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 9        | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 12       | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 17       | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 18       | 8.15          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 19       | 8.15          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 10       | 8.15          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 8        | 8.15          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 8        | 8.15          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 5        | 8.15          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 7        | 8.15          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 18       | 8.15          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 20       | 8.15          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 20       | 8.15          |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG  | 15       | 8.15          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 15       | 8.15          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 4        | 8.15          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 15       | 8.15          |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H   | 12       | 8.15          |
| (1,4529) | 1:A:25:TYR:H   | 1:A:35:HIS:HE1 | 1        | 8.15          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 1        | 8.15          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 1        | 8.15          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB2 | 8        | 8.15          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB3 | 8        | 8.15          |
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB2 | 11       | 8.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4482) | 1:A:24:GLY:HA2 | 1:A:33:CYS:HB3 | 11       | 8.15          |
| (1,4477) | 1:A:24:GLY:HA2 | 1:A:32:TYR:H   | 8        | 8.15          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 6        | 8.15          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 6        | 8.15          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 6        | 8.15          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 15       | 8.15          |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 15       | 8.15          |
| (1,4368) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB3 | 8        | 8.15          |
| (1,4269) | 1:A:22:GLN:HG3 | 1:A:34:ALA:HA  | 13       | 8.15          |
| (1,4266) | 1:A:22:GLN:HG3 | 1:A:33:CYS:HA  | 11       | 8.15          |
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB2 | 3        | 8.15          |
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB3 | 3        | 8.15          |
| (1,4181) | 1:A:22:GLN:HB2 | 1:A:27:GLY:HA2 | 4        | 8.15          |
| (1,4181) | 1:A:22:GLN:HB2 | 1:A:27:GLY:HA2 | 5        | 8.15          |
| (1,4178) | 1:A:22:GLN:HG2 | 1:A:27:GLY:H   | 8        | 8.15          |
| (1,4164) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HB3 | 2        | 8.15          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE1 | 3        | 8.15          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE2 | 3        | 8.15          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1 | 8        | 8.15          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2 | 8        | 8.15          |
| (1,3822) | 1:A:19:CYS:H   | 1:A:22:GLN:HG3 | 16       | 8.15          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1 | 2        | 8.15          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 2        | 8.15          |
| (1,3471) | 1:A:16:GLY:H   | 1:A:26:CYS:H   | 11       | 8.15          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3 | 16       | 8.15          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3 | 16       | 8.15          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H   | 10       | 8.15          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 7        | 8.15          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2 | 9        | 8.15          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2 | 12       | 8.15          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB2 | 19       | 8.15          |
| (1,3179) | 1:A:14:CYS:H   | 1:A:23:TYR:HB3 | 19       | 8.15          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 11       | 8.15          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 13       | 8.15          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 14       | 8.15          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3 | 7        | 8.15          |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3 | 11       | 8.15          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 8        | 8.15          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 9        | 8.15          |
| (1,2383) | 1:A:9:PRO:HG3  | 1:A:20:CYS:H   | 17       | 8.15          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 1        | 8.15          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 6        | 8.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 6        | 8.15          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 12       | 8.15          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 12       | 8.15          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 15       | 8.15          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 15       | 8.15          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 12       | 8.15          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 12       | 8.15          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 13       | 8.15          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 13       | 8.15          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 1        | 8.15          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 1        | 8.15          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 1        | 8.15          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 1        | 8.15          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 1        | 8.15          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 1        | 8.15          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 8        | 8.15          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 8        | 8.15          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 2        | 8.15          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 1        | 8.15          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 13       | 8.15          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 4        | 8.15          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 4        | 8.15          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 1        | 8.15          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 1        | 8.15          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 9        | 8.15          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 9        | 8.15          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 18       | 8.15          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 7        | 8.15          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 13       | 8.15          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB2 | 14       | 8.15          |
| (1,1261) | 1:A:4:ASN:HD21 | 1:A:14:CYS:HB3 | 14       | 8.15          |
| (1,1257) | 1:A:4:ASN:HD21 | 1:A:12:GLY:H   | 9        | 8.15          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 13       | 8.15          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 16       | 8.15          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 14       | 8.15          |
| (1,974)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:H   | 6        | 8.14          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 17       | 8.14          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 2        | 8.14          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 12       | 8.14          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 14       | 8.14          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 14       | 8.14          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 14       | 8.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 14       | 8.14          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 12       | 8.14          |
| (1,4935) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HE1 | 1        | 8.14          |
| (1,4935) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HE1 | 1        | 8.14          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2 | 3        | 8.14          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA  | 7        | 8.14          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 7        | 8.14          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 12       | 8.14          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 12       | 8.14          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 12       | 8.14          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 12       | 8.14          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 4        | 8.14          |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 16       | 8.14          |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 18       | 8.14          |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 19       | 8.14          |
| (1,4531) | 1:A:25:TYR:HA   | 1:A:33:CYS:H   | 20       | 8.14          |
| (1,4525) | 1:A:25:TYR:H    | 1:A:34:ALA:H   | 2        | 8.14          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 17       | 8.14          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 17       | 8.14          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 1        | 8.14          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 1        | 8.14          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 19       | 8.14          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 19       | 8.14          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 12       | 8.14          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 12       | 8.14          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 18       | 8.14          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 18       | 8.14          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 4        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 4        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 4        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 4        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 9        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 9        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 9        | 8.14          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 9        | 8.14          |
| (1,4372) | 1:A:23:TYR:HA   | 1:A:35:HIS:H   | 16       | 8.14          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 13       | 8.14          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 13       | 8.14          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 20       | 8.14          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 20       | 8.14          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 4        | 8.14          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 14       | 8.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 9        | 8.14          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 8        | 8.14          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2 | 5        | 8.14          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2 | 5        | 8.14          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2 | 5        | 8.14          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H   | 12       | 8.14          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 20       | 8.14          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 12       | 8.14          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 12       | 8.14          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 12       | 8.14          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 17       | 8.14          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 17       | 8.14          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 3        | 8.14          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 3        | 8.14          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 13       | 8.14          |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 13       | 8.14          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA2 | 15       | 8.14          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA2 | 15       | 8.14          |
| (1,3382) | 1:A:15:ARG:HG2  | 1:A:29:GLY:HA3 | 15       | 8.14          |
| (1,3382) | 1:A:15:ARG:HG3  | 1:A:29:GLY:HA3 | 15       | 8.14          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 6        | 8.14          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 17       | 8.14          |
| (1,3315) | 1:A:15:ARG:HB2  | 1:A:33:CYS:H   | 11       | 8.14          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 8        | 8.14          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 9        | 8.14          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 16       | 8.14          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2 | 13       | 8.14          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H   | 5        | 8.14          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA  | 15       | 8.14          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1 | 7        | 8.14          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2 | 7        | 8.14          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 4        | 8.14          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 14       | 8.14          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 14       | 8.14          |
| (1,3055) | 1:A:12:GLY:HA3  | 1:A:21:SER:H   | 15       | 8.14          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA  | 12       | 8.14          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 18       | 8.14          |
| (1,2625) | 1:A:11:TRP:HA   | 1:A:26:CYS:HB3 | 19       | 8.14          |
| (1,2597) | 1:A:11:TRP:H    | 1:A:26:CYS:HA  | 12       | 8.14          |
| (1,2597) | 1:A:11:TRP:H    | 1:A:26:CYS:HA  | 20       | 8.14          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2 | 16       | 8.14          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3 | 16       | 8.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 4        | 8.14          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 10       | 8.14          |
| (1,2300) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HH2 | 13       | 8.14          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 1        | 8.14          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 1        | 8.14          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 11       | 8.14          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 11       | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 8        | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 8        | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 9        | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 9        | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 15       | 8.14          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 15       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 11       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 11       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 11       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 11       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 11       | 8.14          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 11       | 8.14          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 19       | 8.14          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 6        | 8.14          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 10       | 8.14          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 14       | 8.14          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 10       | 8.14          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 18       | 8.14          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 2        | 8.14          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 8        | 8.14          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 11       | 8.13          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 11       | 8.13          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 17       | 8.13          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 3        | 8.13          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 5        | 8.13          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 6        | 8.13          |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 16       | 8.13          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2 | 3        | 8.13          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3 | 3        | 8.13          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2 | 6        | 8.13          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3 | 6        | 8.13          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 19       | 8.13          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 20       | 8.13          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 5        | 8.13          |
| (1,4481) | 1:A:24:GLY:HA2 | 1:A:33:CYS:H   | 14       | 8.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 8        | 8.13          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 8        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 5        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 5        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 5        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 7        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 7        | 8.13          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 7        | 8.13          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 15       | 8.13          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 15       | 8.13          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 8        | 8.13          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 8        | 8.13          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 1        | 8.13          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 1        | 8.13          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 1        | 8.13          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 1        | 8.13          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 14       | 8.13          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 2        | 8.13          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 7        | 8.13          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 7        | 8.13          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 5        | 8.13          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 5        | 8.13          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 18       | 8.13          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 7        | 8.13          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 5        | 8.13          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 9        | 8.13          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 18       | 8.13          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 13       | 8.13          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 15       | 8.13          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 4        | 8.13          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 7        | 8.13          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 16       | 8.13          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 6        | 8.13          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 6        | 8.13          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 17       | 8.13          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 18       | 8.13          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 6        | 8.13          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 6        | 8.13          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 14       | 8.13          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 14       | 8.13          |
| (1,3431) | 1:A:15:ARG:HE   | 1:A:26:CYS:H   | 20       | 8.13          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 8        | 8.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H   | 8        | 8.13          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H   | 13       | 8.13          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H   | 13       | 8.13          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 5        | 8.13          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 7        | 8.13          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 5        | 8.13          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 20       | 8.13          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 14       | 8.13          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2 | 1        | 8.13          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2 | 18       | 8.13          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2 | 14       | 8.13          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 14       | 8.13          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 18       | 8.13          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 19       | 8.13          |
| (1,2591) | 1:A:11:TRP:H   | 1:A:20:CYS:H   | 17       | 8.13          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 7        | 8.13          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 7        | 8.13          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1 | 1        | 8.13          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2 | 1        | 8.13          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 6        | 8.13          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 6        | 8.13          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE1 | 17       | 8.13          |
| (1,2400) | 1:A:9:PRO:HG3  | 1:A:25:TYR:HE2 | 17       | 8.13          |
| (1,2326) | 1:A:9:PRO:HG2  | 1:A:23:TYR:H   | 17       | 8.13          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 13       | 8.13          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 6        | 8.13          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 6        | 8.13          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 16       | 8.13          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 16       | 8.13          |
| (1,1822) | 1:A:6:GLN:HE21 | 1:A:21:SER:H   | 5        | 8.13          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 10       | 8.13          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 15       | 8.13          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 12       | 8.13          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB2 | 14       | 8.13          |
| (1,1650) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HB3 | 14       | 8.13          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 12       | 8.13          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 15       | 8.13          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 13       | 8.13          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 5        | 8.13          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1 | 4        | 8.13          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2 | 4        | 8.13          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 17       | 8.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 1        | 8.12          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 1        | 8.12          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 12       | 8.12          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 12       | 8.12          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 14       | 8.12          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 14       | 8.12          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 18       | 8.12          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 2        | 8.12          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 9        | 8.12          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 11       | 8.12          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 11       | 8.12          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 5        | 8.12          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 2        | 8.12          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 12       | 8.12          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 11       | 8.12          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 11       | 8.12          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 18       | 8.12          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 18       | 8.12          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 18       | 8.12          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 18       | 8.12          |
| (1,4307) | 1:A:22:GLN:HE22 | 1:A:26:CYS:HA  | 15       | 8.12          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 8        | 8.12          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 16       | 8.12          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 18       | 8.12          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 9        | 8.12          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 2        | 8.12          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 8        | 8.12          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 13       | 8.12          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 13       | 8.12          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 10       | 8.12          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 3        | 8.12          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 3        | 8.12          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 18       | 8.12          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 18       | 8.12          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 2        | 8.12          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 3        | 8.12          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 6        | 8.12          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 9        | 8.12          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 15       | 8.12          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 8        | 8.12          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 6        | 8.12          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 12       | 8.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 2        | 8.12          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 2        | 8.12          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 2        | 8.12          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 7        | 8.12          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 7        | 8.12          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 15       | 8.12          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 9        | 8.12          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 9        | 8.12          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 1        | 8.12          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 1        | 8.12          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 1        | 8.12          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 1        | 8.12          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA  | 15       | 8.12          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2 | 8        | 8.12          |
| (1,2802) | 1:A:11:TRP:HE3  | 1:A:25:TYR:HB3 | 17       | 8.12          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H   | 13       | 8.12          |
| (1,2689) | 1:A:11:TRP:HB3  | 1:A:21:SER:HG  | 13       | 8.12          |
| (1,2597) | 1:A:11:TRP:H    | 1:A:26:CYS:HA  | 16       | 8.12          |
| (1,2457) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HE1 | 17       | 8.12          |
| (1,2457) | 1:A:9:PRO:HD3   | 1:A:35:HIS:HE1 | 17       | 8.12          |
| (1,2445) | 1:A:9:PRO:HD2   | 1:A:26:CYS:HB3 | 2        | 8.12          |
| (1,2445) | 1:A:9:PRO:HD3   | 1:A:26:CYS:HB3 | 2        | 8.12          |
| (1,2445) | 1:A:9:PRO:HD2   | 1:A:26:CYS:HB3 | 5        | 8.12          |
| (1,2445) | 1:A:9:PRO:HD3   | 1:A:26:CYS:HB3 | 5        | 8.12          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 15       | 8.12          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 15       | 8.12          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 15       | 8.12          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 15       | 8.12          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2 | 1        | 8.12          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB3 | 1        | 8.12          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2 | 11       | 8.12          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB3 | 11       | 8.12          |
| (1,1870) | 1:A:6:GLN:HE22  | 1:A:10:GLY:HA2 | 1        | 8.12          |
| (1,1869) | 1:A:6:GLN:HE22  | 1:A:10:GLY:H   | 18       | 8.12          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB2 | 7        | 8.12          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB3 | 7        | 8.12          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB2 | 18       | 8.12          |
| (1,1823) | 1:A:6:GLN:HE21  | 1:A:21:SER:HB3 | 18       | 8.12          |
| (1,1794) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HA   | 17       | 8.12          |
| (1,1152) | 1:A:4:ASN:HB2   | 1:A:23:TYR:H   | 18       | 8.12          |
| (1,1095) | 1:A:4:ASN:H     | 1:A:27:GLY:H   | 4        | 8.12          |
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD2 | 13       | 8.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,909)  | 1:A:3:PRO:HG2   | 1:A:15:ARG:HD3 | 13       | 8.11          |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD2 | 13       | 8.11          |
| (1,909)  | 1:A:3:PRO:HG3   | 1:A:15:ARG:HD3 | 13       | 8.11          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H   | 4        | 8.11          |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H   | 10       | 8.11          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 2        | 8.11          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 2        | 8.11          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 2        | 8.11          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 2        | 8.11          |
| (1,4849) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HE1 | 15       | 8.11          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 10       | 8.11          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 10       | 8.11          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 1        | 8.11          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 5        | 8.11          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 11       | 8.11          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 14       | 8.11          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 16       | 8.11          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 16       | 8.11          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 16       | 8.11          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 16       | 8.11          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 16       | 8.11          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 17       | 8.11          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 17       | 8.11          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 9        | 8.11          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 9        | 8.11          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 10       | 8.11          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 10       | 8.11          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 7        | 8.11          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 7        | 8.11          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 7        | 8.11          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 7        | 8.11          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 12       | 8.11          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 12       | 8.11          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 12       | 8.11          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 12       | 8.11          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 5        | 8.11          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 5        | 8.11          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 5        | 8.11          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 12       | 8.11          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 12       | 8.11          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 13       | 8.11          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 18       | 8.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA  | 12       | 8.11          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2 | 10       | 8.11          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB3 | 10       | 8.11          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2 | 6        | 8.11          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3 | 6        | 8.11          |
| (1,3966) | 1:A:20:CYS:HB2 | 1:A:29:GLY:H   | 5        | 8.11          |
| (1,3593) | 1:A:17:GLY:HA2 | 1:A:20:CYS:HB2 | 10       | 8.11          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 17       | 8.11          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 18       | 8.11          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 19       | 8.11          |
| (1,3329) | 1:A:15:ARG:HB3 | 1:A:21:SER:HB3 | 13       | 8.11          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB2 | 12       | 8.11          |
| (1,3280) | 1:A:15:ARG:H   | 1:A:35:HIS:HB3 | 12       | 8.11          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H   | 17       | 8.11          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 1        | 8.11          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 10       | 8.11          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 10       | 8.11          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG  | 14       | 8.11          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 3        | 8.11          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 3        | 8.11          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 14       | 8.11          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 9        | 8.11          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 7        | 8.11          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 15       | 8.11          |
| (1,2446) | 1:A:9:PRO:HD2  | 1:A:27:GLY:H   | 17       | 8.11          |
| (1,2446) | 1:A:9:PRO:HD3  | 1:A:27:GLY:H   | 17       | 8.11          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 1        | 8.11          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 1        | 8.11          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 4        | 8.11          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 4        | 8.11          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 2        | 8.11          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 17       | 8.11          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 17       | 8.11          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 4        | 8.11          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 19       | 8.11          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 19       | 8.11          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 2        | 8.11          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2  | 3        | 8.11          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3  | 3        | 8.11          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 20       | 8.11          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 3        | 8.11          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 12       | 8.11          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB2  | 5        | 8.11          |
| (1,1007) | 1:A:3:PRO:HD3   | 1:A:14:CYS:HB3  | 5        | 8.11          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD21 | 2        | 8.1           |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD22 | 2        | 8.1           |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD23 | 2        | 8.1           |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H    | 11       | 8.1           |
| (1,630)  | 1:A:2:GLY:H     | 1:A:20:CYS:H    | 16       | 8.1           |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE   | 14       | 8.1           |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1  | 13       | 8.1           |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1  | 13       | 8.1           |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA   | 17       | 8.1           |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2  | 9        | 8.1           |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3  | 9        | 8.1           |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2  | 15       | 8.1           |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3  | 15       | 8.1           |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2  | 15       | 8.1           |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3  | 15       | 8.1           |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA   | 15       | 8.1           |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA   | 15       | 8.1           |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2  | 10       | 8.1           |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H    | 5        | 8.1           |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H    | 16       | 8.1           |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H    | 10       | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 7        | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 7        | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 9        | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 9        | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2  | 20       | 8.1           |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3  | 20       | 8.1           |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H    | 16       | 8.1           |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H    | 4        | 8.1           |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H    | 4        | 8.1           |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 12       | 8.1           |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 12       | 8.1           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2  | 1        | 8.1           |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3  | 1        | 8.1           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2  | 1        | 8.1           |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3  | 1        | 8.1           |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H    | 17       | 8.1           |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 10       | 8.1           |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA   | 8        | 8.1           |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 9        | 8.1           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 9        | 8.1           |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 16       | 8.1           |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 16       | 8.1           |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 10       | 8.1           |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 10       | 8.1           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 3        | 8.1           |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 3        | 8.1           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 15       | 8.1           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 15       | 8.1           |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H    | 12       | 8.1           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2  | 7        | 8.1           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3  | 7        | 8.1           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2  | 2        | 8.1           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3  | 2        | 8.1           |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 7        | 8.1           |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 10       | 8.1           |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 10       | 8.1           |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 10       | 8.1           |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 13       | 8.1           |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2  | 3        | 8.1           |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3  | 3        | 8.1           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 5        | 8.1           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 5        | 8.1           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 5        | 8.1           |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 14       | 8.1           |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 14       | 8.1           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1  | 2        | 8.1           |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2  | 2        | 8.1           |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 6        | 8.1           |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 6        | 8.1           |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 6        | 8.1           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 10       | 8.1           |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 10       | 8.1           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 10       | 8.1           |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 10       | 8.1           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 10       | 8.1           |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 10       | 8.1           |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA   | 20       | 8.1           |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 2        | 8.1           |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 4        | 8.1           |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 1        | 8.1           |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 9        | 8.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1  | 1        | 8.1           |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2  | 1        | 8.1           |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H    | 19       | 8.1           |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H    | 19       | 8.1           |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H    | 18       | 8.1           |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H    | 19       | 8.1           |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3  | 15       | 8.1           |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 7        | 8.1           |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 2        | 8.1           |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 2        | 8.1           |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 4        | 8.1           |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 4        | 8.1           |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 6        | 8.1           |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 6        | 8.1           |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 18       | 8.1           |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 19       | 8.1           |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 12       | 8.1           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 6        | 8.1           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 6        | 8.1           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 6        | 8.1           |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 13       | 8.1           |
| (1,2625) | 1:A:11:TRP:HA  | 1:A:26:CYS:HB3  | 16       | 8.1           |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 3        | 8.1           |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 3        | 8.1           |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 10       | 8.1           |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 10       | 8.1           |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 5        | 8.1           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 16       | 8.1           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 16       | 8.1           |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 5        | 8.1           |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 5        | 8.1           |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG2  | 20       | 8.1           |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG2  | 20       | 8.1           |
| (1,2011) | 1:A:7:CYS:HB2  | 1:A:31:LYS:HG3  | 20       | 8.1           |
| (1,2011) | 1:A:7:CYS:HB3  | 1:A:31:LYS:HG3  | 20       | 8.1           |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 5        | 8.1           |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 3        | 8.1           |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 7        | 8.1           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 3        | 8.1           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 3        | 8.1           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 4        | 8.1           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 4        | 8.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1754) | 1:A:6:GLN:HG3   | 1:A:19:CYS:H   | 11       | 8.1           |
| (1,1724) | 1:A:6:GLN:HG2   | 1:A:27:GLY:H   | 7        | 8.1           |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA2 | 19       | 8.1           |
| (1,1416) | 1:A:5:GLY:H     | 1:A:16:GLY:HA3 | 19       | 8.1           |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE1 | 15       | 8.1           |
| (1,1156) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HE2 | 15       | 8.1           |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD1 | 17       | 8.1           |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD2 | 17       | 8.1           |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 8        | 8.1           |
| (1,1152) | 1:A:4:ASN:HB2   | 1:A:23:TYR:H   | 19       | 8.1           |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 11       | 8.1           |
| (1,1069) | 1:A:4:ASN:H     | 1:A:18:LEU:HB3 | 6        | 8.1           |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 4        | 8.09          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 4        | 8.09          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 4        | 8.09          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 4        | 8.09          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 4        | 8.09          |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 8        | 8.09          |
| (1,4721) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HE1 | 20       | 8.09          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 4        | 8.09          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 4        | 8.09          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 8        | 8.09          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 8        | 8.09          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 8        | 8.09          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 18       | 8.09          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 18       | 8.09          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB2 | 19       | 8.09          |
| (1,4482) | 1:A:24:GLY:HA2  | 1:A:33:CYS:HB3 | 19       | 8.09          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 13       | 8.09          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 18       | 8.09          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 19       | 8.09          |
| (1,4477) | 1:A:24:GLY:HA2  | 1:A:32:TYR:H   | 20       | 8.09          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 5        | 8.09          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 5        | 8.09          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 9        | 8.09          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 9        | 8.09          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 8        | 8.09          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 12       | 8.09          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 6        | 8.09          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 15       | 8.09          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 2        | 8.09          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 6        | 8.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4229) | 1:A:22:GLN:HB3 | 1:A:27:GLY:HA2 | 16       | 8.09          |
| (1,3979) | 1:A:20:CYS:HB2 | 1:A:35:HIS:H   | 12       | 8.09          |
| (1,3913) | 1:A:20:CYS:H   | 1:A:22:GLN:HG2 | 13       | 8.09          |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ1 | 10       | 8.09          |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ2 | 10       | 8.09          |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ3 | 10       | 8.09          |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE1 | 3        | 8.09          |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE2 | 3        | 8.09          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD2 | 18       | 8.09          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD3 | 18       | 8.09          |
| (1,3862) | 1:A:19:CYS:HA  | 1:A:31:LYS:HG2 | 2        | 8.09          |
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H   | 16       | 8.09          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB2 | 16       | 8.09          |
| (1,3574) | 1:A:17:GLY:H   | 1:A:30:PRO:HB3 | 16       | 8.09          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1 | 15       | 8.09          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2 | 15       | 8.09          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3 | 15       | 8.09          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 17       | 8.09          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 16       | 8.09          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 16       | 8.09          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 16       | 8.09          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 16       | 8.09          |
| (1,3328) | 1:A:15:ARG:HB3 | 1:A:21:SER:H   | 16       | 8.09          |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1 | 13       | 8.09          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H   | 4        | 8.09          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 10       | 8.09          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 10       | 8.09          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 3        | 8.09          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 3        | 8.09          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 5        | 8.09          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 5        | 8.09          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 17       | 8.09          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA  | 7        | 8.09          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA  | 20       | 8.09          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H   | 11       | 8.09          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H   | 14       | 8.09          |
| (1,2689) | 1:A:11:TRP:HB3 | 1:A:21:SER:HG  | 17       | 8.09          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H   | 1        | 8.09          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2 | 6        | 8.09          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 19       | 8.09          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 19       | 8.09          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3 | 11       | 8.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3 | 11       | 8.09          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 8        | 8.09          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 8        | 8.09          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 20       | 8.09          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 20       | 8.09          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 20       | 8.09          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 20       | 8.09          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 13       | 8.09          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 13       | 8.09          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 5        | 8.09          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 5        | 8.09          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 13       | 8.09          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 13       | 8.09          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 13       | 8.09          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 13       | 8.09          |
| (1,2008) | 1:A:7:CYS:HB2  | 1:A:29:GLY:H   | 17       | 8.09          |
| (1,2008) | 1:A:7:CYS:HB3  | 1:A:29:GLY:H   | 17       | 8.09          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 3        | 8.09          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 17       | 8.09          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 8        | 8.09          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 1        | 8.09          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H   | 19       | 8.09          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 1        | 8.09          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 11       | 8.09          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 2        | 8.09          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 5        | 8.09          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 6        | 8.09          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 10       | 8.09          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 6        | 8.09          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 6        | 8.09          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 7        | 8.09          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 7        | 8.09          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 18       | 8.09          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 18       | 8.09          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 17       | 8.09          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 3        | 8.09          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 4        | 8.09          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 1        | 8.09          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 8        | 8.08          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 2        | 8.08          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 4        | 8.08          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 4        | 8.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 4        | 8.08          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 10       | 8.08          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 2        | 8.08          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 1        | 8.08          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 16       | 8.08          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 16       | 8.08          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 15       | 8.08          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 15       | 8.08          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 15       | 8.08          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 3        | 8.08          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 3        | 8.08          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 6        | 8.08          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 6        | 8.08          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 13       | 8.08          |
| (1,4536) | 1:A:25:TYR:HB2  | 1:A:31:LYS:H   | 17       | 8.08          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 15       | 8.08          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 17       | 8.08          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 14       | 8.08          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 14       | 8.08          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 3        | 8.08          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 20       | 8.08          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 20       | 8.08          |
| (1,4437) | 1:A:23:TYR:HE1  | 1:A:33:CYS:HA  | 1        | 8.08          |
| (1,4437) | 1:A:23:TYR:HE2  | 1:A:33:CYS:HA  | 1        | 8.08          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 20       | 8.08          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 20       | 8.08          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 18       | 8.08          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 18       | 8.08          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 10       | 8.08          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 10       | 8.08          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 10       | 8.08          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 10       | 8.08          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 13       | 8.08          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 10       | 8.08          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 13       | 8.08          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 5        | 8.08          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 5        | 8.08          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 13       | 8.08          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 11       | 8.08          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 12       | 8.08          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 12       | 8.08          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 10       | 8.08          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3997) | 1:A:20:CYS:HB3 | 1:A:29:GLY:H    | 17       | 8.08          |
| (1,3840) | 1:A:19:CYS:H   | 1:A:31:LYS:HG3  | 3        | 8.08          |
| (1,3823) | 1:A:19:CYS:H   | 1:A:22:GLN:HE21 | 6        | 8.08          |
| (1,3823) | 1:A:19:CYS:H   | 1:A:22:GLN:HE22 | 6        | 8.08          |
| (1,3726) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HE1  | 1        | 8.08          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA   | 14       | 8.08          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA   | 18       | 8.08          |
| (1,3696) | 1:A:18:LEU:HB2 | 1:A:30:PRO:HA   | 19       | 8.08          |
| (1,3583) | 1:A:17:GLY:H   | 1:A:34:ALA:H    | 19       | 8.08          |
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3  | 16       | 8.08          |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 16       | 8.08          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1  | 1        | 8.08          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2  | 1        | 8.08          |
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 20       | 8.08          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE1  | 3        | 8.08          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE2  | 3        | 8.08          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE1  | 17       | 8.08          |
| (1,3208) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HE2  | 17       | 8.08          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 2        | 8.08          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 3        | 8.08          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 10       | 8.08          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 4        | 8.08          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 4        | 8.08          |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H    | 1        | 8.08          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 16       | 8.08          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 8        | 8.08          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 1        | 8.08          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 9        | 8.08          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 20       | 8.08          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 4        | 8.08          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 1        | 8.08          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 14       | 8.08          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 14       | 8.08          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 8        | 8.08          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 8        | 8.08          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 8        | 8.08          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 8        | 8.08          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 5        | 8.08          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 6        | 8.08          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 6        | 8.08          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 11       | 8.08          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 8        | 8.08          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 16       | 8.08          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA    | 11       | 8.08          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 9        | 8.08          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 15       | 8.08          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 16       | 8.08          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 18       | 8.08          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1  | 11       | 8.08          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2  | 11       | 8.08          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 17       | 8.08          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 3        | 8.08          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 3        | 8.08          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 20       | 8.08          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 8        | 8.08          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 8        | 8.08          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 12       | 8.08          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 12       | 8.08          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 7        | 8.08          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H     | 4        | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 6        | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 6        | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 6        | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 17       | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 17       | 8.07          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 17       | 8.07          |
| (1,786)  | 1:A:3:PRO:HB2  | 1:A:15:ARG:HE   | 1        | 8.07          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2  | 4        | 8.07          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 10       | 8.07          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3  | 4        | 8.07          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3  | 4        | 8.07          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1  | 4        | 8.07          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2  | 4        | 8.07          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3  | 4        | 8.07          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA   | 9        | 8.07          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA   | 14       | 8.07          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H    | 18       | 8.07          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H    | 19       | 8.07          |
| (1,4534) | 1:A:25:TYR:HB2 | 1:A:29:GLY:H    | 20       | 8.07          |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H    | 13       | 8.07          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2  | 1        | 8.07          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3  | 1        | 8.07          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2  | 9        | 8.07          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3  | 9        | 8.07          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2  | 13       | 8.07          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3  | 13       | 8.07          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 11       | 8.07          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 11       | 8.07          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 9        | 8.07          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 9        | 8.07          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 1        | 8.07          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 5        | 8.07          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 5        | 8.07          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 7        | 8.07          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 7        | 8.07          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2  | 17       | 8.07          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3  | 17       | 8.07          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA   | 8        | 8.07          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 14       | 8.07          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 8        | 8.07          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2  | 3        | 8.07          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3  | 3        | 8.07          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA   | 6        | 8.07          |
| (1,4097) | 1:A:21:SER:HG   | 1:A:34:ALA:HA   | 16       | 8.07          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 12       | 8.07          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H    | 7        | 8.07          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 12       | 8.07          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 9        | 8.07          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 9        | 8.07          |
| (1,3672) | 1:A:18:LEU:HA   | 1:A:31:LYS:HG3  | 16       | 8.07          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2  | 15       | 8.07          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3  | 15       | 8.07          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H    | 3        | 8.07          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 3        | 8.07          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 14       | 8.07          |
| (1,3583) | 1:A:17:GLY:H    | 1:A:34:ALA:H    | 18       | 8.07          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1  | 12       | 8.07          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2  | 12       | 8.07          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H    | 14       | 8.07          |
| (1,3351) | 1:A:15:ARG:HB3  | 1:A:33:CYS:H    | 13       | 8.07          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA   | 6        | 8.07          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA   | 11       | 8.07          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 4        | 8.07          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 4        | 8.07          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 6        | 8.07          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 6        | 8.07          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H    | 13       | 8.07          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 8        | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 5        | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 7        | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 8        | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 16       | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 18       | 8.07          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 19       | 8.07          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 14       | 8.07          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 17       | 8.07          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 3        | 8.07          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 11       | 8.07          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 6        | 8.07          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 6        | 8.07          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 6        | 8.07          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 6        | 8.07          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 6        | 8.07          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 6        | 8.07          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 11       | 8.07          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 11       | 8.07          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 11       | 8.07          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 11       | 8.07          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 4        | 8.07          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 2        | 8.07          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 10       | 8.07          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 17       | 8.07          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 17       | 8.07          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 20       | 8.07          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 6        | 8.07          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 6        | 8.07          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA    | 1        | 8.07          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA    | 9        | 8.07          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA    | 15       | 8.07          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 8        | 8.07          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 20       | 8.07          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1  | 19       | 8.07          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2  | 19       | 8.07          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 11       | 8.07          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 11       | 8.07          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2  | 3        | 8.07          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 14       | 8.07          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2  | 16       | 8.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1289) | 1:A:4:ASN:HD21  | 1:A:27:GLY:HA3 | 16       | 8.07          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H   | 3        | 8.06          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H   | 1        | 8.06          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 3        | 8.06          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 6        | 8.06          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 6        | 8.06          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 7        | 8.06          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 7        | 8.06          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG2 | 20       | 8.06          |
| (1,4493) | 1:A:24:GLY:HA3  | 1:A:31:LYS:HG3 | 20       | 8.06          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 8        | 8.06          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 11       | 8.06          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 15       | 8.06          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 6        | 8.06          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 7        | 8.06          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 7        | 8.06          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 7        | 8.06          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 7        | 8.06          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 5        | 8.06          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 5        | 8.06          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 5        | 8.06          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 5        | 8.06          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 20       | 8.06          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 8        | 8.06          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 18       | 8.06          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 18       | 8.06          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 8        | 8.06          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 13       | 8.06          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 14       | 8.06          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 14       | 8.06          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 14       | 8.06          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 3        | 8.06          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 5        | 8.06          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 5        | 8.06          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 14       | 8.06          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2 | 18       | 8.06          |
| (1,3696) | 1:A:18:LEU:HB2  | 1:A:30:PRO:HA  | 16       | 8.06          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 4        | 8.06          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 8        | 8.06          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2 | 8        | 8.06          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 8        | 8.06          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 5        | 8.06          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3236) | 1:A:14:CYS:HB3 | 1:A:23:TYR:HB2  | 16       | 8.06          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3  | 14       | 8.06          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 14       | 8.06          |
| (1,3112) | 1:A:13:GLY:H   | 1:A:25:TYR:H    | 17       | 8.06          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 14       | 8.06          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 14       | 8.06          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 2        | 8.06          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 6        | 8.06          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 10       | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 4        | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 4        | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 4        | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 5        | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 5        | 8.06          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 5        | 8.06          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 11       | 8.06          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 6        | 8.06          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 5        | 8.06          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 6        | 8.06          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 11       | 8.06          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 11       | 8.06          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 18       | 8.06          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 18       | 8.06          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 18       | 8.06          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 18       | 8.06          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 5        | 8.06          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 5        | 8.06          |
| (1,1724) | 1:A:6:GLN:HG2  | 1:A:27:GLY:H    | 11       | 8.06          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 12       | 8.06          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 4        | 8.06          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 4        | 8.06          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 15       | 8.06          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 15       | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2  | 7        | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3  | 7        | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2  | 8        | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3  | 8        | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2  | 15       | 8.06          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3  | 15       | 8.06          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 19       | 8.06          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2  | 2        | 8.06          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3  | 2        | 8.06          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 6        | 8.05          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 17       | 8.05          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 12       | 8.05          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 12       | 8.05          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 3        | 8.05          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 3        | 8.05          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 1        | 8.05          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 1        | 8.05          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 3        | 8.05          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 3        | 8.05          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 13       | 8.05          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 13       | 8.05          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 10       | 8.05          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 1        | 8.05          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 1        | 8.05          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 13       | 8.05          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 13       | 8.05          |
| (1,4481) | 1:A:24:GLY:HA2 | 1:A:33:CYS:H   | 1        | 8.05          |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2 | 5        | 8.05          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 9        | 8.05          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 9        | 8.05          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 9        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB2 | 3        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB2 | 3        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB3 | 3        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB3 | 3        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB2 | 8        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB2 | 8        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB3 | 8        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB3 | 8        | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB2 | 13       | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB2 | 13       | 8.05          |
| (1,4397) | 1:A:23:TYR:HD1 | 1:A:28:SER:HB3 | 13       | 8.05          |
| (1,4397) | 1:A:23:TYR:HD2 | 1:A:28:SER:HB3 | 13       | 8.05          |
| (1,4269) | 1:A:22:GLN:HG3 | 1:A:34:ALA:HA  | 12       | 8.05          |
| (1,4240) | 1:A:22:GLN:HB3 | 1:A:33:CYS:HB3 | 15       | 8.05          |
| (1,4211) | 1:A:22:GLN:HB2 | 1:A:35:HIS:H   | 12       | 8.05          |
| (1,4191) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA3 | 6        | 8.05          |
| (1,4176) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HB3 | 3        | 8.05          |
| (1,3997) | 1:A:20:CYS:HB3 | 1:A:29:GLY:H   | 1        | 8.05          |
| (1,3997) | 1:A:20:CYS:HB3 | 1:A:29:GLY:H   | 11       | 8.05          |
| (1,3977) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HA  | 14       | 8.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE1  | 20       | 8.05          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE2  | 20       | 8.05          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 8        | 8.05          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 8        | 8.05          |
| (1,3949) | 1:A:20:CYS:H   | 1:A:35:HIS:HE1  | 18       | 8.05          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2  | 10       | 8.05          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3  | 10       | 8.05          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE1  | 20       | 8.05          |
| (1,3920) | 1:A:20:CYS:H   | 1:A:23:TYR:HE2  | 20       | 8.05          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 7        | 8.05          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 7        | 8.05          |
| (1,3760) | 1:A:18:LEU:HG  | 1:A:35:HIS:HD2  | 13       | 8.05          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE1  | 14       | 8.05          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE2  | 14       | 8.05          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3  | 11       | 8.05          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H    | 11       | 8.05          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H    | 11       | 8.05          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H    | 11       | 8.05          |
| (1,3386) | 1:A:15:ARG:HG2 | 1:A:33:CYS:H    | 20       | 8.05          |
| (1,3386) | 1:A:15:ARG:HG3 | 1:A:33:CYS:H    | 20       | 8.05          |
| (1,3372) | 1:A:15:ARG:HG2 | 1:A:25:TYR:H    | 11       | 8.05          |
| (1,3372) | 1:A:15:ARG:HG3 | 1:A:25:TYR:H    | 11       | 8.05          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD1  | 14       | 8.05          |
| (1,3202) | 1:A:14:CYS:HB2 | 1:A:23:TYR:HD2  | 14       | 8.05          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 16       | 8.05          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 16       | 8.05          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 9        | 8.05          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 7        | 8.05          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 3        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 2        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 2        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 2        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 3        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 3        | 8.05          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 3        | 8.05          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 2        | 8.05          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 5        | 8.05          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 10       | 8.05          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA   | 13       | 8.05          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 13       | 8.05          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 13       | 8.05          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2  | 9        | 8.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3  | 9        | 8.05          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2  | 9        | 8.05          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3  | 9        | 8.05          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD1  | 17       | 8.05          |
| (1,2170) | 1:A:9:PRO:HA   | 1:A:25:TYR:HD2  | 17       | 8.05          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H    | 4        | 8.05          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE21 | 19       | 8.05          |
| (1,2051) | 1:A:8:GLY:H    | 1:A:22:GLN:HE22 | 19       | 8.05          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 5        | 8.05          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 5        | 8.05          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 12       | 8.05          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 2        | 8.05          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 2        | 8.05          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 10       | 8.05          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 10       | 8.05          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 3        | 8.05          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 3        | 8.05          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 6        | 8.05          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 6        | 8.05          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 8        | 8.05          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 12       | 8.05          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 2        | 8.05          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 5        | 8.05          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 10       | 8.05          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE1  | 2        | 8.05          |
| (1,1110) | 1:A:4:ASN:H    | 1:A:32:TYR:HE2  | 2        | 8.05          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 14       | 8.05          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 11       | 8.05          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 13       | 8.04          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 13       | 8.04          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2  | 6        | 8.04          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 3        | 8.04          |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG   | 18       | 8.04          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1  | 9        | 8.04          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1  | 9        | 8.04          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3  | 10       | 8.04          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3  | 10       | 8.04          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H    | 20       | 8.04          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA   | 11       | 8.04          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2  | 16       | 8.04          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3  | 16       | 8.04          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2  | 12       | 8.04          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 12       | 8.04          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 15       | 8.04          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 15       | 8.04          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 11       | 8.04          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 11       | 8.04          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 13       | 8.04          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 13       | 8.04          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 9        | 8.04          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 9        | 8.04          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 9        | 8.04          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 11       | 8.04          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 7        | 8.04          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 20       | 8.04          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 20       | 8.04          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 4        | 8.04          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 6        | 8.04          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 16       | 8.04          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 12       | 8.04          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 2        | 8.04          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 19       | 8.04          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 14       | 8.04          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 14       | 8.04          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 19       | 8.04          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 13       | 8.04          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 4        | 8.04          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 6        | 8.04          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 19       | 8.04          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 5        | 8.04          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 5        | 8.04          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 6        | 8.04          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 9        | 8.04          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 8        | 8.04          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 16       | 8.04          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 16       | 8.04          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA  | 11       | 8.04          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA  | 11       | 8.04          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA  | 11       | 8.04          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 2        | 8.04          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 10       | 8.04          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 10       | 8.04          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3 | 13       | 8.04          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 10       | 8.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2 | 10       | 8.04          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1 | 11       | 8.04          |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2 | 11       | 8.04          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H   | 20       | 8.04          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 4        | 8.04          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 11       | 8.04          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H   | 5        | 8.04          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 3        | 8.04          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 4        | 8.04          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H   | 13       | 8.04          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H   | 16       | 8.04          |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 11       | 8.04          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H   | 4        | 8.04          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H   | 12       | 8.04          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 18       | 8.04          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 18       | 8.04          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 18       | 8.04          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 18       | 8.04          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE1 | 17       | 8.04          |
| (1,2224) | 1:A:9:PRO:HB2  | 1:A:25:TYR:HE2 | 17       | 8.04          |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 3        | 8.04          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2 | 2        | 8.04          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 2        | 8.04          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 9        | 8.04          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 4        | 8.04          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 12       | 8.04          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE1 | 6        | 8.04          |
| (1,1718) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HE2 | 6        | 8.04          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 6        | 8.04          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 6        | 8.04          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 16       | 8.04          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 16       | 8.04          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 17       | 8.04          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 17       | 8.04          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 20       | 8.04          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 1        | 8.04          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 1        | 8.04          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 18       | 8.04          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 18       | 8.04          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 6        | 8.04          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 14       | 8.03          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 13       | 8.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,754)  | 1:A:3:PRO:HA    | 1:A:14:CYS:HB2 | 3        | 8.03          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 8        | 8.03          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 8        | 8.03          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 1        | 8.03          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 20       | 8.03          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 20       | 8.03          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 20       | 8.03          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 20       | 8.03          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 15       | 8.03          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 15       | 8.03          |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA  | 1        | 8.03          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 17       | 8.03          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 17       | 8.03          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 7        | 8.03          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 7        | 8.03          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 7        | 8.03          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 7        | 8.03          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 11       | 8.03          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 11       | 8.03          |
| (1,4549) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HB2 | 3        | 8.03          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 16       | 8.03          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 4        | 8.03          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 9        | 8.03          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 9        | 8.03          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 15       | 8.03          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 15       | 8.03          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 1        | 8.03          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 12       | 8.03          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 16       | 8.03          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 14       | 8.03          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 14       | 8.03          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 14       | 8.03          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 11       | 8.03          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 11       | 8.03          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 11       | 8.03          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 11       | 8.03          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 6        | 8.03          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 9        | 8.03          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3 | 10       | 8.03          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 7        | 8.03          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 7        | 8.03          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 8        | 8.03          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3  | 8        | 8.03          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 5        | 8.03          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 5        | 8.03          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1  | 9        | 8.03          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2  | 9        | 8.03          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3  | 9        | 8.03          |
| (1,3281) | 1:A:15:ARG:H   | 1:A:35:HIS:HD2  | 13       | 8.03          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H    | 14       | 8.03          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H    | 12       | 8.03          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA2  | 17       | 8.03          |
| (1,3120) | 1:A:13:GLY:H   | 1:A:27:GLY:HA3  | 17       | 8.03          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 1        | 8.03          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 11       | 8.03          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H    | 8        | 8.03          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 13       | 8.03          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3  | 13       | 8.03          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 13       | 8.03          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 13       | 8.03          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 17       | 8.03          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 17       | 8.03          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H    | 1        | 8.03          |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 15       | 8.03          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 10       | 8.03          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 10       | 8.03          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 10       | 8.03          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 13       | 8.03          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 1        | 8.03          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 1        | 8.03          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 1        | 8.03          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 1        | 8.03          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 13       | 8.03          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 13       | 8.03          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 13       | 8.03          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 13       | 8.03          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA   | 3        | 8.03          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 4        | 8.03          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 4        | 8.03          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 9        | 8.03          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 9        | 8.03          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 9        | 8.03          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 9        | 8.03          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 9        | 8.03          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 9        | 8.03          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 12       | 8.03          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 20       | 8.03          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 17       | 8.03          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 17       | 8.03          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 16       | 8.03          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 19       | 8.03          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 4        | 8.03          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 16       | 8.03          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 3        | 8.03          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 3        | 8.03          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 18       | 8.03          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 19       | 8.03          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 20       | 8.03          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 5        | 8.03          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 6        | 8.03          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 10       | 8.03          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 4        | 8.03          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 17       | 8.03          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 17       | 8.03          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 17       | 8.03          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 17       | 8.03          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 19       | 8.03          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 19       | 8.03          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 11       | 8.03          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 11       | 8.03          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 1        | 8.03          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 5        | 8.03          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 2        | 8.02          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 18       | 8.02          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 14       | 8.02          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 1        | 8.02          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 11       | 8.02          |
| (1,630)  | 1:A:2:GLY:H    | 1:A:20:CYS:H   | 9        | 8.02          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 2        | 8.02          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 2        | 8.02          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 14       | 8.02          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 14       | 8.02          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 12       | 8.02          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 9        | 8.02          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 5        | 8.02          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 5        | 8.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 8        | 8.02          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 7        | 8.02          |
| (1,4525) | 1:A:25:TYR:H   | 1:A:34:ALA:H   | 16       | 8.02          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 12       | 8.02          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 12       | 8.02          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 5        | 8.02          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 5        | 8.02          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 17       | 8.02          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 18       | 8.02          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 19       | 8.02          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 20       | 8.02          |
| (1,4481) | 1:A:24:GLY:HA2 | 1:A:33:CYS:H   | 9        | 8.02          |
| (1,4451) | 1:A:24:GLY:H   | 1:A:31:LYS:HB2 | 6        | 8.02          |
| (1,4376) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HB2 | 9        | 8.02          |
| (1,4242) | 1:A:22:GLN:HB3 | 1:A:34:ALA:HA  | 9        | 8.02          |
| (1,4242) | 1:A:22:GLN:HB3 | 1:A:34:ALA:HA  | 20       | 8.02          |
| (1,4229) | 1:A:22:GLN:HB3 | 1:A:27:GLY:HA2 | 8        | 8.02          |
| (1,4209) | 1:A:22:GLN:HB2 | 1:A:34:ALA:HA  | 3        | 8.02          |
| (1,3977) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HA  | 12       | 8.02          |
| (1,3966) | 1:A:20:CYS:HB2 | 1:A:29:GLY:H   | 11       | 8.02          |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE1 | 20       | 8.02          |
| (1,3893) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HE2 | 20       | 8.02          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 2        | 8.02          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD1 | 14       | 8.02          |
| (1,3303) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HD2 | 14       | 8.02          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H   | 6        | 8.02          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 8        | 8.02          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 12       | 8.02          |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 15       | 8.02          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 20       | 8.02          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 12       | 8.02          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG2 | 12       | 8.02          |
| (1,2430) | 1:A:9:PRO:HD2  | 1:A:15:ARG:HG3 | 12       | 8.02          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG2 | 12       | 8.02          |
| (1,2430) | 1:A:9:PRO:HD3  | 1:A:15:ARG:HG3 | 12       | 8.02          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 4        | 8.02          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H   | 3        | 8.02          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H   | 3        | 8.02          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB2 | 14       | 8.02          |
| (1,1876) | 1:A:6:GLN:HE22 | 1:A:14:CYS:HB3 | 14       | 8.02          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 4        | 8.02          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 3        | 8.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 9        | 8.02          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 18       | 8.02          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 7        | 8.02          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 8        | 8.02          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 20       | 8.02          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H   | 9        | 8.02          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 14       | 8.02          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 7        | 8.02          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 2        | 8.02          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 10       | 8.02          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 10       | 8.02          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 13       | 8.01          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 3        | 8.01          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 16       | 8.01          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 19       | 8.01          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 1        | 8.01          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 10       | 8.01          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2 | 9        | 8.01          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3 | 9        | 8.01          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 13       | 8.01          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 15       | 8.01          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 8        | 8.01          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 8        | 8.01          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1 | 2        | 8.01          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1 | 2        | 8.01          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 3        | 8.01          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ1 | 18       | 8.01          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ2 | 18       | 8.01          |
| (1,4660) | 1:A:26:CYS:HB2 | 1:A:31:LYS:HZ3 | 18       | 8.01          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 8        | 8.01          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 8        | 8.01          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 8        | 8.01          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 8        | 8.01          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 18       | 8.01          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 18       | 8.01          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 19       | 8.01          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 19       | 8.01          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 20       | 8.01          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 20       | 8.01          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 4        | 8.01          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 4        | 8.01          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 1        | 8.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 11       | 8.01          |
| (1,4530) | 1:A:25:TYR:HA   | 1:A:32:TYR:H   | 20       | 8.01          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 12       | 8.01          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 12       | 8.01          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 12       | 8.01          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 9        | 8.01          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 9        | 8.01          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 9        | 8.01          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 9        | 8.01          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 9        | 8.01          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 9        | 8.01          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 18       | 8.01          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 18       | 8.01          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 18       | 8.01          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 18       | 8.01          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 18       | 8.01          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 6        | 8.01          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 6        | 8.01          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 10       | 8.01          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 2        | 8.01          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 2        | 8.01          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 18       | 8.01          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 2        | 8.01          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 15       | 8.01          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3 | 15       | 8.01          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 19       | 8.01          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 1        | 8.01          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 18       | 8.01          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 20       | 8.01          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2 | 20       | 8.01          |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3 | 20       | 8.01          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 13       | 8.01          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 13       | 8.01          |
| (1,3471) | 1:A:16:GLY:H    | 1:A:26:CYS:H   | 14       | 8.01          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H   | 9        | 8.01          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H   | 9        | 8.01          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA  | 17       | 8.01          |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3 | 13       | 8.01          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 13       | 8.01          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 13       | 8.01          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA2 | 17       | 8.01          |
| (1,3090) | 1:A:13:GLY:H    | 1:A:17:GLY:HA3 | 17       | 8.01          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 9        | 8.01          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 18       | 8.01          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 19       | 8.01          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 10       | 8.01          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 10       | 8.01          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD1 | 17       | 8.01          |
| (1,2452) | 1:A:9:PRO:HD2  | 1:A:32:TYR:HD2 | 17       | 8.01          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD1 | 17       | 8.01          |
| (1,2452) | 1:A:9:PRO:HD3  | 1:A:32:TYR:HD2 | 17       | 8.01          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 6        | 8.01          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 14       | 8.01          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 11       | 8.01          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 11       | 8.01          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 2        | 8.01          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 2        | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 18       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 20       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 20       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 20       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 20       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 20       | 8.01          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 20       | 8.01          |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE  | 20       | 8.01          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2 | 15       | 8.01          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 2        | 8.01          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 2        | 8.01          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 13       | 8.01          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 1        | 8.01          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 2        | 8.01          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 5        | 8.01          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 5        | 8.01          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 20       | 8.01          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 20       | 8.01          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 14       | 8.01          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 6        | 8.01          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 6        | 8.01          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 10       | 8.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3  | 10       | 8.01          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 13       | 8.0           |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 13       | 8.0           |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 13       | 8.0           |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2  | 17       | 8.0           |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 6        | 8.0           |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H    | 13       | 8.0           |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H    | 13       | 8.0           |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H    | 13       | 8.0           |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG   | 8        | 8.0           |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2  | 14       | 8.0           |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3  | 14       | 8.0           |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2  | 7        | 8.0           |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3  | 7        | 8.0           |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H    | 14       | 8.0           |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H    | 14       | 8.0           |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3  | 12       | 8.0           |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H    | 16       | 8.0           |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H    | 18       | 8.0           |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H    | 19       | 8.0           |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA   | 14       | 8.0           |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2  | 3        | 8.0           |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3  | 3        | 8.0           |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 18       | 8.0           |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA2  | 11       | 8.0           |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA3  | 11       | 8.0           |
| (1,4208) | 1:A:22:GLN:HG2 | 1:A:34:ALA:HA   | 8        | 8.0           |
| (1,4205) | 1:A:22:GLN:HB2 | 1:A:33:CYS:HB3  | 12       | 8.0           |
| (1,4181) | 1:A:22:GLN:HB2 | 1:A:27:GLY:HA2  | 11       | 8.0           |
| (1,4101) | 1:A:21:SER:HG  | 1:A:35:HIS:HE1  | 1        | 8.0           |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2  | 9        | 8.0           |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3  | 9        | 8.0           |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2  | 13       | 8.0           |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3  | 13       | 8.0           |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3  | 9        | 8.0           |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3  | 19       | 8.0           |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 10       | 8.0           |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 10       | 8.0           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2  | 16       | 8.0           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3  | 16       | 8.0           |
| (1,3840) | 1:A:19:CYS:H   | 1:A:31:LYS:HG3  | 6        | 8.0           |
| (1,3761) | 1:A:18:LEU:HG  | 1:A:35:HIS:HE1  | 12       | 8.0           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2 | 1        | 8.0           |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 1        | 8.0           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 1        | 8.0           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 1        | 8.0           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 1        | 8.0           |
| (1,3593) | 1:A:17:GLY:HA2 | 1:A:20:CYS:HB2 | 15       | 8.0           |
| (1,3517) | 1:A:16:GLY:HA2 | 1:A:32:TYR:H   | 3        | 8.0           |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2 | 19       | 8.0           |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2 | 19       | 8.0           |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3 | 19       | 8.0           |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3 | 19       | 8.0           |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 18       | 8.0           |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 19       | 8.0           |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA  | 13       | 8.0           |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 1        | 8.0           |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H   | 5        | 8.0           |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG  | 12       | 8.0           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 11       | 8.0           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 11       | 8.0           |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 20       | 8.0           |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 12       | 8.0           |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 14       | 8.0           |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 3        | 8.0           |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 15       | 8.0           |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H   | 15       | 8.0           |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 8        | 8.0           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 4        | 8.0           |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 4        | 8.0           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD1 | 17       | 8.0           |
| (1,2054) | 1:A:8:GLY:H    | 1:A:23:TYR:HD2 | 17       | 8.0           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 15       | 8.0           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 15       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 19       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 19       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 19       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 19       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 19       | 8.0           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 19       | 8.0           |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 4        | 8.0           |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 12       | 8.0           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 6        | 8.0           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 6        | 8.0           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2 | 10       | 8.0           |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3 | 10       | 8.0           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2  | 14       | 8.0           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3  | 14       | 8.0           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 6        | 8.0           |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H   | 20       | 8.0           |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 3        | 8.0           |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 14       | 8.0           |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 18       | 8.0           |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 19       | 8.0           |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 1        | 8.0           |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 7        | 8.0           |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 10       | 8.0           |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 13       | 8.0           |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 17       | 8.0           |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 6        | 8.0           |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 10       | 8.0           |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 5        | 8.0           |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 13       | 8.0           |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 1        | 8.0           |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 4        | 7.99          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 12       | 7.99          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 12       | 7.99          |
| (1,4654) | 1:A:26:CYS:HB2 | 1:A:29:GLY:HA3 | 14       | 7.99          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD2 | 20       | 7.99          |
| (1,4619) | 1:A:26:CYS:H   | 1:A:31:LYS:HD3 | 20       | 7.99          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 13       | 7.99          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 15       | 7.99          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 17       | 7.99          |
| (1,4530) | 1:A:25:TYR:HA  | 1:A:32:TYR:H   | 2        | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 11       | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 11       | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 11       | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 17       | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 17       | 7.99          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 17       | 7.99          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 7        | 7.99          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 7        | 7.99          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1 | 16       | 7.99          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2 | 16       | 7.99          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3 | 16       | 7.99          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1 | 16       | 7.99          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 16       | 7.99          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 16       | 7.99          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 6        | 7.99          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 6        | 7.99          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 11       | 7.99          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 11       | 7.99          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 14       | 7.99          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 14       | 7.99          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 11       | 7.99          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H    | 6        | 7.99          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2  | 19       | 7.99          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3  | 19       | 7.99          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 9        | 7.99          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 18       | 7.99          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA   | 19       | 7.99          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 12       | 7.99          |
| (1,4176) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB3  | 15       | 7.99          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 11       | 7.99          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 11       | 7.99          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 4        | 7.99          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 5        | 7.99          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 4        | 7.99          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 11       | 7.99          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 11       | 7.99          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 17       | 7.99          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 7        | 7.99          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 16       | 7.99          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 18       | 7.99          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 18       | 7.99          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 19       | 7.99          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 10       | 7.99          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 10       | 7.99          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 10       | 7.99          |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2  | 8        | 7.99          |
| (1,3386) | 1:A:15:ARG:HG2  | 1:A:33:CYS:H    | 18       | 7.99          |
| (1,3386) | 1:A:15:ARG:HG3  | 1:A:33:CYS:H    | 18       | 7.99          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2  | 7        | 7.99          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2  | 7        | 7.99          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3  | 7        | 7.99          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3  | 7        | 7.99          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H    | 7        | 7.99          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H    | 17       | 7.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 9        | 7.99          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 9        | 7.99          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 20       | 7.99          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 20       | 7.99          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H    | 18       | 7.99          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 11       | 7.99          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 11       | 7.99          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H    | 4        | 7.99          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 12       | 7.99          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 12       | 7.99          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 12       | 7.99          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 9        | 7.99          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 20       | 7.99          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 5        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 5        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 5        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 5        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 6        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 6        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 6        | 7.99          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 6        | 7.99          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 7        | 7.99          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 7        | 7.99          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 17       | 7.99          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 17       | 7.99          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 17       | 7.99          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 17       | 7.99          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 17       | 7.99          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 17       | 7.99          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 10       | 7.99          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 10       | 7.99          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 10       | 7.99          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 10       | 7.99          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 14       | 7.99          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB2  | 5        | 7.99          |
| (1,1823) | 1:A:6:GLN:HE21 | 1:A:21:SER:HB3  | 5        | 7.99          |
| (1,1754) | 1:A:6:GLN:HG3  | 1:A:19:CYS:H    | 7        | 7.99          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 5        | 7.99          |
| (1,1478) | 1:A:5:GLY:HA3  | 1:A:16:GLY:H    | 8        | 7.99          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 12       | 7.99          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 12       | 7.99          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 9        | 7.99          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 14       | 7.99          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 14       | 7.99          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 16       | 7.99          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 3        | 7.99          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 2        | 7.99          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 10       | 7.99          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 13       | 7.99          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 1        | 7.99          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 12       | 7.99          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 5        | 7.99          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 6        | 7.98          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 7        | 7.98          |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H   | 14       | 7.98          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 1        | 7.98          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 12       | 7.98          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 7        | 7.98          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 7        | 7.98          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 11       | 7.98          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 11       | 7.98          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 20       | 7.98          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 20       | 7.98          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2 | 12       | 7.98          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3 | 12       | 7.98          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2 | 17       | 7.98          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3 | 17       | 7.98          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB1 | 8        | 7.98          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB2 | 8        | 7.98          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB3 | 8        | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 18       | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 18       | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 18       | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 19       | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 19       | 7.98          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 19       | 7.98          |
| (1,4433) | 1:A:23:TYR:HE1 | 1:A:32:TYR:H   | 15       | 7.98          |
| (1,4433) | 1:A:23:TYR:HE2 | 1:A:32:TYR:H   | 15       | 7.98          |
| (1,4416) | 1:A:23:TYR:HE1 | 1:A:26:CYS:HB2 | 20       | 7.98          |
| (1,4416) | 1:A:23:TYR:HE2 | 1:A:26:CYS:HB2 | 20       | 7.98          |
| (1,4242) | 1:A:22:GLN:HB3 | 1:A:34:ALA:HA  | 5        | 7.98          |
| (1,4205) | 1:A:22:GLN:HB2 | 1:A:33:CYS:HB3 | 8        | 7.98          |
| (1,4190) | 1:A:22:GLN:HG2 | 1:A:29:GLY:HA3 | 10       | 7.98          |
| (1,4178) | 1:A:22:GLN:HG2 | 1:A:27:GLY:H   | 7        | 7.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2 | 1        | 7.98          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3 | 1        | 7.98          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2 | 4        | 7.98          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3 | 4        | 7.98          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB2 | 17       | 7.98          |
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3 | 17       | 7.98          |
| (1,4002) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HG3 | 7        | 7.98          |
| (1,3999) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HA  | 2        | 7.98          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE1 | 2        | 7.98          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE2 | 2        | 7.98          |
| (1,3863) | 1:A:19:CYS:HA  | 1:A:31:LYS:HB3 | 1        | 7.98          |
| (1,3863) | 1:A:19:CYS:HA  | 1:A:31:LYS:HB3 | 3        | 7.98          |
| (1,3840) | 1:A:19:CYS:H   | 1:A:31:LYS:HG3 | 15       | 7.98          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 11       | 7.98          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 11       | 7.98          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 11       | 7.98          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE1 | 4        | 7.98          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE2 | 4        | 7.98          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 15       | 7.98          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 9        | 7.98          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 19       | 7.98          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 1        | 7.98          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 15       | 7.98          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 16       | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 1        | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 1        | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 10       | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 10       | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 15       | 7.98          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 15       | 7.98          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 6        | 7.98          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 11       | 7.98          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 15       | 7.98          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 18       | 7.98          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 19       | 7.98          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 2        | 7.98          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 2        | 7.98          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 2        | 7.98          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3 | 2        | 7.98          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 10       | 7.98          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 10       | 7.98          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 10       | 7.98          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 10       | 7.98          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 18       | 7.98          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 18       | 7.98          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 19       | 7.98          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 19       | 7.98          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 10       | 7.98          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 10       | 7.98          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 6        | 7.98          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 6        | 7.98          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 6        | 7.98          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 6        | 7.98          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 10       | 7.98          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 10       | 7.98          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 6        | 7.98          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 13       | 7.98          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 2        | 7.98          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 5        | 7.98          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 17       | 7.98          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 11       | 7.98          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 12       | 7.98          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 2        | 7.98          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 15       | 7.98          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 16       | 7.98          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 3        | 7.98          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 8        | 7.98          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 9        | 7.98          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 2        | 7.98          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 8        | 7.98          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H    | 18       | 7.98          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H    | 19       | 7.98          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 5        | 7.98          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 9        | 7.98          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 4        | 7.97          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 4        | 7.97          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H     | 10       | 7.97          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 5        | 7.97          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 5        | 7.97          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 5        | 7.97          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 11       | 7.97          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 15       | 7.97          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 3        | 7.97          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 3        | 7.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 1        | 7.97          |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 2        | 7.97          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 4        | 7.97          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 7        | 7.97          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 8        | 7.97          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 11       | 7.97          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 14       | 7.97          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 16       | 7.97          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 16       | 7.97          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 3        | 7.97          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 3        | 7.97          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 5        | 7.97          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 10       | 7.97          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 15       | 7.97          |
| (1,4534) | 1:A:25:TYR:HB2  | 1:A:29:GLY:H   | 10       | 7.97          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 8        | 7.97          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 16       | 7.97          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 20       | 7.97          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 20       | 7.97          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 20       | 7.97          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 13       | 7.97          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 13       | 7.97          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 13       | 7.97          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 13       | 7.97          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 8        | 7.97          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 8        | 7.97          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 1        | 7.97          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 1        | 7.97          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 19       | 7.97          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 19       | 7.97          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 19       | 7.97          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 3        | 7.97          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 12       | 7.97          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 2        | 7.97          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 2        | 7.97          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 13       | 7.97          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 18       | 7.97          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 8        | 7.97          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 8        | 7.97          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 11       | 7.97          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 1        | 7.97          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2 | 2        | 7.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4030) | 1:A:21:SER:H   | 1:A:30:PRO:HB3  | 2        | 7.97          |
| (1,3999) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HA   | 14       | 7.97          |
| (1,3977) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HA   | 2        | 7.97          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2  | 15       | 7.97          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3  | 15       | 7.97          |
| (1,3889) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HE21 | 7        | 7.97          |
| (1,3889) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HE22 | 7        | 7.97          |
| (1,3637) | 1:A:17:GLY:HA3 | 1:A:32:TYR:H    | 14       | 7.97          |
| (1,3631) | 1:A:17:GLY:HA3 | 1:A:26:CYS:H    | 6        | 7.97          |
| (1,3547) | 1:A:16:GLY:HA3 | 1:A:35:HIS:H    | 10       | 7.97          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 8        | 7.97          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H    | 20       | 7.97          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1  | 1        | 7.97          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2  | 1        | 7.97          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 8        | 7.97          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 10       | 7.97          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 10       | 7.97          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 18       | 7.97          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 18       | 7.97          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2  | 6        | 7.97          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3  | 6        | 7.97          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H    | 7        | 7.97          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 2        | 7.97          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 2        | 7.97          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 4        | 7.97          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 4        | 7.97          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H    | 12       | 7.97          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 7        | 7.97          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 18       | 7.97          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 19       | 7.97          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE1  | 17       | 7.97          |
| (1,2476) | 1:A:10:GLY:H   | 1:A:25:TYR:HE2  | 17       | 7.97          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB2  | 16       | 7.97          |
| (1,2081) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HB3  | 16       | 7.97          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 14       | 7.97          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 14       | 7.97          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 15       | 7.97          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 15       | 7.97          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 15       | 7.97          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 15       | 7.97          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 2        | 7.97          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 2        | 7.97          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 4        | 7.97          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 4        | 7.97          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 5        | 7.97          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 5        | 7.97          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 17       | 7.97          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 17       | 7.97          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 13       | 7.97          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 3        | 7.97          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 10       | 7.97          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 2        | 7.97          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 10       | 7.97          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 13       | 7.97          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 6        | 7.97          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 11       | 7.97          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 3        | 7.97          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 8        | 7.97          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 8        | 7.97          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 20       | 7.97          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 20       | 7.97          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA2 | 20       | 7.97          |
| (1,1289) | 1:A:4:ASN:HD21 | 1:A:27:GLY:HA3 | 20       | 7.97          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 9        | 7.97          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 16       | 7.97          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 19       | 7.97          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 18       | 7.97          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 15       | 7.97          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2 | 7        | 7.97          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3 | 7        | 7.97          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB2 | 17       | 7.97          |
| (1,1007) | 1:A:3:PRO:HD3  | 1:A:14:CYS:HB3 | 17       | 7.97          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 20       | 7.97          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 1        | 7.96          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 2        | 7.96          |
| (1,836)  | 1:A:3:PRO:HB3  | 1:A:7:CYS:H    | 5        | 7.96          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 5        | 7.96          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 14       | 7.96          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 1        | 7.96          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 8        | 7.96          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2 | 13       | 7.96          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3 | 13       | 7.96          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 17       | 7.96          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 17       | 7.96          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 13       | 7.96          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 17       | 7.96          |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 18       | 7.96          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 2        | 7.96          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 9        | 7.96          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 17       | 7.96          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 17       | 7.96          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 8        | 7.96          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 8        | 7.96          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 15       | 7.96          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 15       | 7.96          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 11       | 7.96          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 11       | 7.96          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 11       | 7.96          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 11       | 7.96          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 19       | 7.96          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 20       | 7.96          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 7        | 7.96          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 15       | 7.96          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 19       | 7.96          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 18       | 7.96          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 19       | 7.96          |
| (1,4481) | 1:A:24:GLY:HA2  | 1:A:33:CYS:H   | 20       | 7.96          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 18       | 7.96          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 18       | 7.96          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 18       | 7.96          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 1        | 7.96          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 1        | 7.96          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 1        | 7.96          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 7        | 7.96          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 7        | 7.96          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 17       | 7.96          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 17       | 7.96          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 16       | 7.96          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 2        | 7.96          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 14       | 7.96          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 14       | 7.96          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 5        | 7.96          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 18       | 7.96          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 7        | 7.96          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3 | 9        | 7.96          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 8        | 7.96          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4044) | 1:A:21:SER:H   | 1:A:35:HIS:H   | 8        | 7.96          |
| (1,3970) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HG2 | 7        | 7.96          |
| (1,3970) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HG3 | 7        | 7.96          |
| (1,3970) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HG2 | 13       | 7.96          |
| (1,3970) | 1:A:20:CYS:HB2 | 1:A:31:LYS:HG3 | 13       | 7.96          |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3 | 15       | 7.96          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE1 | 1        | 7.96          |
| (1,3960) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HE2 | 1        | 7.96          |
| (1,3913) | 1:A:20:CYS:H   | 1:A:22:GLN:HG2 | 12       | 7.96          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1 | 1        | 7.96          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2 | 1        | 7.96          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB2 | 18       | 7.96          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB3 | 18       | 7.96          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB2 | 19       | 7.96          |
| (1,3656) | 1:A:18:LEU:H   | 1:A:30:PRO:HB3 | 19       | 7.96          |
| (1,3520) | 1:A:16:GLY:HA2 | 1:A:33:CYS:HB3 | 20       | 7.96          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H   | 16       | 7.96          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 14       | 7.96          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 18       | 7.96          |
| (1,3177) | 1:A:14:CYS:H   | 1:A:22:GLN:H   | 19       | 7.96          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG  | 9        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 1        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 1        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 5        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 5        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 8        | 7.96          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 8        | 7.96          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA2 | 5        | 7.96          |
| (1,3090) | 1:A:13:GLY:H   | 1:A:17:GLY:HA3 | 5        | 7.96          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H   | 3        | 7.96          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H   | 16       | 7.96          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 12       | 7.96          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 12       | 7.96          |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 8        | 7.96          |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H   | 16       | 7.96          |
| (1,2802) | 1:A:11:TRP:HE3 | 1:A:25:TYR:HB3 | 11       | 7.96          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 3        | 7.96          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 3        | 7.96          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 11       | 7.96          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 11       | 7.96          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 2        | 7.96          |
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H   | 5        | 7.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2778) | 1:A:11:TRP:HE3 | 1:A:14:CYS:H    | 10       | 7.96          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 20       | 7.96          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 1        | 7.96          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H    | 16       | 7.96          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2  | 4        | 7.96          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2  | 4        | 7.96          |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3  | 4        | 7.96          |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3  | 4        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 2        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 3        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 4        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 5        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 6        | 7.96          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 10       | 7.96          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 7        | 7.96          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 7        | 7.96          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA   | 3        | 7.96          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 8        | 7.96          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 8        | 7.96          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 3        | 7.96          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 3        | 7.96          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 2        | 7.96          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 9        | 7.96          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 9        | 7.96          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 15       | 7.96          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 9        | 7.96          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA   | 14       | 7.96          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 4        | 7.96          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2   | 2        | 7.96          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3   | 2        | 7.96          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2  | 14       | 7.96          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 18       | 7.96          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H    | 20       | 7.96          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA   | 2        | 7.96          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 2        | 7.96          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 18       | 7.96          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 13       | 7.96          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H    | 18       | 7.95          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H    | 15       | 7.95          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 15       | 7.95          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 15       | 7.95          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1  | 5        | 7.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 5        | 7.95          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 5        | 7.95          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2 | 5        | 7.95          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE  | 13       | 7.95          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 15       | 7.95          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 15       | 7.95          |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 15       | 7.95          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 3        | 7.95          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 6        | 7.95          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 17       | 7.95          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 1        | 7.95          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 1        | 7.95          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 9        | 7.95          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 9        | 7.95          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 12       | 7.95          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 12       | 7.95          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 12       | 7.95          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 12       | 7.95          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 16       | 7.95          |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 18       | 7.95          |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 3        | 7.95          |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 6        | 7.95          |
| (1,4515) | 1:A:25:TYR:H   | 1:A:31:LYS:HA  | 13       | 7.95          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2 | 15       | 7.95          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3 | 15       | 7.95          |
| (1,4437) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HA  | 2        | 7.95          |
| (1,4437) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HA  | 2        | 7.95          |
| (1,4403) | 1:A:23:TYR:HD1 | 1:A:31:LYS:H   | 15       | 7.95          |
| (1,4403) | 1:A:23:TYR:HD2 | 1:A:31:LYS:H   | 15       | 7.95          |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2 | 5        | 7.95          |
| (1,4211) | 1:A:22:GLN:HB2 | 1:A:35:HIS:H   | 13       | 7.95          |
| (1,4200) | 1:A:22:GLN:HG2 | 1:A:33:CYS:H   | 18       | 7.95          |
| (1,4191) | 1:A:22:GLN:HB2 | 1:A:29:GLY:HA3 | 12       | 7.95          |
| (1,3999) | 1:A:20:CYS:HB3 | 1:A:30:PRO:HA  | 12       | 7.95          |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3 | 2        | 7.95          |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3 | 4        | 7.95          |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3 | 5        | 7.95          |
| (1,3965) | 1:A:20:CYS:HB2 | 1:A:28:SER:HB3 | 6        | 7.95          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2 | 17       | 7.95          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3 | 17       | 7.95          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD2 | 6        | 7.95          |
| (1,3864) | 1:A:19:CYS:HA  | 1:A:31:LYS:HD3 | 6        | 7.95          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2 | 20       | 7.95          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3 | 20       | 7.95          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 15       | 7.95          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE1 | 20       | 7.95          |
| (1,3826) | 1:A:19:CYS:H    | 1:A:23:TYR:HE2 | 20       | 7.95          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2 | 16       | 7.95          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2 | 16       | 7.95          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2 | 16       | 7.95          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 2        | 7.95          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 2        | 7.95          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 20       | 7.95          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 10       | 7.95          |
| (1,3177) | 1:A:14:CYS:H    | 1:A:22:GLN:H   | 7        | 7.95          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 2        | 7.95          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 2        | 7.95          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1 | 19       | 7.95          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2 | 19       | 7.95          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H   | 2        | 7.95          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H   | 4        | 7.95          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 7        | 7.95          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 18       | 7.95          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 19       | 7.95          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB2 | 5        | 7.95          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB3 | 5        | 7.95          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H   | 16       | 7.95          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H   | 17       | 7.95          |
| (1,2741) | 1:A:11:TRP:HD1  | 1:A:21:SER:HG  | 16       | 7.95          |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H   | 7        | 7.95          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2 | 14       | 7.95          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3 | 14       | 7.95          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB2 | 3        | 7.95          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB2 | 3        | 7.95          |
| (1,2433) | 1:A:9:PRO:HD2   | 1:A:18:LEU:HB3 | 3        | 7.95          |
| (1,2433) | 1:A:9:PRO:HD3   | 1:A:18:LEU:HB3 | 3        | 7.95          |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD1 | 17       | 7.95          |
| (1,2399) | 1:A:9:PRO:HG3   | 1:A:25:TYR:HD2 | 17       | 7.95          |
| (1,2003) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HE1 | 11       | 7.95          |
| (1,2003) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HE2 | 11       | 7.95          |
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE1 | 11       | 7.95          |
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE2 | 11       | 7.95          |
| (1,1976) | 1:A:7:CYS:HA    | 1:A:22:GLN:H   | 1        | 7.95          |
| (1,1897) | 1:A:6:GLN:HE22  | 1:A:26:CYS:HA  | 10       | 7.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 13       | 7.95          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 6        | 7.95          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 14       | 7.95          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 14       | 7.95          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 14       | 7.95          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 14       | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 5        | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 5        | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 6        | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 6        | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 10       | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 10       | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 17       | 7.95          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 17       | 7.95          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 1        | 7.95          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 1        | 7.95          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 19       | 7.95          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 18       | 7.95          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2 | 19       | 7.95          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3 | 19       | 7.95          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 5        | 7.94          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 10       | 7.94          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 17       | 7.94          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 9        | 7.94          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 20       | 7.94          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 17       | 7.94          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 17       | 7.94          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 5        | 7.94          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 13       | 7.94          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 13       | 7.94          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 1        | 7.94          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 15       | 7.94          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 7        | 7.94          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 10       | 7.94          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 10       | 7.94          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 14       | 7.94          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 14       | 7.94          |
| (1,4609) | 1:A:26:CYS:H   | 1:A:29:GLY:H   | 5        | 7.94          |
| (1,4576) | 1:A:25:TYR:HD1 | 1:A:33:CYS:HA  | 5        | 7.94          |
| (1,4576) | 1:A:25:TYR:HD2 | 1:A:33:CYS:HA  | 5        | 7.94          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB2 | 3        | 7.94          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB3 | 3        | 7.94          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 7        | 7.94          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 7        | 7.94          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 7        | 7.94          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 7        | 7.94          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 7        | 7.94          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 7        | 7.94          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 5        | 7.94          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2  | 8        | 7.94          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 3        | 7.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 19       | 7.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 19       | 7.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 19       | 7.94          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 6        | 7.94          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 6        | 7.94          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H    | 15       | 7.94          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 9        | 7.94          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 16       | 7.94          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 16       | 7.94          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 3        | 7.94          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 12       | 7.94          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 12       | 7.94          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 15       | 7.94          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 15       | 7.94          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 1        | 7.94          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 14       | 7.94          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 14       | 7.94          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 14       | 7.94          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H    | 5        | 7.94          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1  | 20       | 7.94          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2  | 20       | 7.94          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3  | 20       | 7.94          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 4        | 7.94          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H    | 7        | 7.94          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H    | 7        | 7.94          |
| (1,3364) | 1:A:15:ARG:HG2  | 1:A:21:SER:HG   | 11       | 7.94          |
| (1,3364) | 1:A:15:ARG:HG3  | 1:A:21:SER:HG   | 11       | 7.94          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H    | 10       | 7.94          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA   | 12       | 7.94          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 10       | 7.94          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 20       | 7.94          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB2  | 6        | 7.94          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB3  | 6        | 7.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG  | 8        | 7.94          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG  | 9        | 7.94          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG  | 12       | 7.94          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 3        | 7.94          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 4        | 7.94          |
| (1,2661) | 1:A:11:TRP:HB2 | 1:A:27:GLY:H   | 11       | 7.94          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 4        | 7.94          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 4        | 7.94          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3 | 9        | 7.94          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3 | 20       | 7.94          |
| (1,2087) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG3 | 5        | 7.94          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 12       | 7.94          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 12       | 7.94          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 9        | 7.94          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 9        | 7.94          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 6        | 7.94          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 6        | 7.94          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 6        | 7.94          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 6        | 7.94          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H   | 11       | 7.94          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 1        | 7.94          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 11       | 7.94          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA   | 5        | 7.94          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 7        | 7.94          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 8        | 7.94          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 16       | 7.94          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 19       | 7.94          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 20       | 7.94          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 5        | 7.94          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 5        | 7.94          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 3        | 7.94          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 3        | 7.94          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 2        | 7.94          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 2        | 7.94          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 16       | 7.94          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 14       | 7.94          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 14       | 7.94          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 14       | 7.94          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 16       | 7.94          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 16       | 7.94          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 18       | 7.94          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 18       | 7.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H   | 4        | 7.94          |
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H   | 8        | 7.94          |
| (1,1126) | 1:A:4:ASN:HB2   | 1:A:11:TRP:H   | 5        | 7.94          |
| (1,1076) | 1:A:4:ASN:H     | 1:A:21:SER:H   | 4        | 7.94          |
| (1,1076) | 1:A:4:ASN:H     | 1:A:21:SER:H   | 14       | 7.94          |
| (1,1000) | 1:A:3:PRO:HD3   | 1:A:8:GLY:H    | 4        | 7.94          |
| (1,979)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:HB3 | 15       | 7.93          |
| (1,771)  | 1:A:3:PRO:HB2   | 1:A:7:CYS:H    | 1        | 7.93          |
| (1,771)  | 1:A:3:PRO:HB2   | 1:A:7:CYS:H    | 11       | 7.93          |
| (1,771)  | 1:A:3:PRO:HB2   | 1:A:7:CYS:H    | 15       | 7.93          |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3 | 1        | 7.93          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 20       | 7.93          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 4        | 7.93          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 4        | 7.93          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 20       | 7.93          |
| (1,632)  | 1:A:2:GLY:H     | 1:A:21:SER:HG  | 8        | 7.93          |
| (1,632)  | 1:A:2:GLY:H     | 1:A:21:SER:HG  | 13       | 7.93          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD1 | 9        | 7.93          |
| (1,570)  | 1:A:1:SER:HB2   | 1:A:23:TYR:HD2 | 9        | 7.93          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD1 | 9        | 7.93          |
| (1,570)  | 1:A:1:SER:HB3   | 1:A:23:TYR:HD2 | 9        | 7.93          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 9        | 7.93          |
| (1,4907) | 1:A:31:LYS:HE2  | 1:A:35:HIS:HE1 | 16       | 7.93          |
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1 | 16       | 7.93          |
| (1,4576) | 1:A:25:TYR:HD1  | 1:A:33:CYS:HA  | 2        | 7.93          |
| (1,4576) | 1:A:25:TYR:HD2  | 1:A:33:CYS:HA  | 2        | 7.93          |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1 | 17       | 7.93          |
| (1,4384) | 1:A:23:TYR:HB2  | 1:A:35:HIS:H   | 7        | 7.93          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 2        | 7.93          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 16       | 7.93          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 11       | 7.93          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 6        | 7.93          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 6        | 7.93          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 13       | 7.93          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 5        | 7.93          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 2        | 7.93          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 2        | 7.93          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 2        | 7.93          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 5        | 7.93          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 19       | 7.93          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 4        | 7.93          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 4        | 7.93          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1  | 20       | 7.93          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 10       | 7.93          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 18       | 7.93          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 18       | 7.93          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 11       | 7.93          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 11       | 7.93          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 6        | 7.93          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 6        | 7.93          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 6        | 7.93          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1  | 8        | 7.93          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2  | 8        | 7.93          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3  | 8        | 7.93          |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 13       | 7.93          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 3        | 7.93          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 3        | 7.93          |
| (1,3177) | 1:A:14:CYS:H    | 1:A:22:GLN:H    | 16       | 7.93          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1  | 13       | 7.93          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2  | 13       | 7.93          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1  | 12       | 7.93          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2  | 12       | 7.93          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 20       | 7.93          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 9        | 7.93          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 7        | 7.93          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 8        | 7.93          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 14       | 7.93          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 18       | 7.93          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 19       | 7.93          |
| (1,2677) | 1:A:11:TRP:HB3  | 1:A:15:ARG:H    | 6        | 7.93          |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 2        | 7.93          |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 2        | 7.93          |
| (1,2384) | 1:A:9:PRO:HG3   | 1:A:21:SER:H    | 17       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 7        | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 8        | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 12       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 14       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 16       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 17       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 18       | 7.93          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 19       | 7.93          |
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG2  | 20       | 7.93          |
| (1,2107) | 1:A:8:GLY:HA3   | 1:A:15:ARG:HG3  | 20       | 7.93          |
| (1,2073) | 1:A:8:GLY:H     | 1:A:32:TYR:HB2  | 20       | 7.93          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3 | 20       | 7.93          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 8        | 7.93          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 8        | 7.93          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 20       | 7.93          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 20       | 7.93          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H   | 5        | 7.93          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H   | 5        | 7.93          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 14       | 7.93          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 14       | 7.93          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H   | 13       | 7.93          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H   | 15       | 7.93          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 3        | 7.93          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2  | 12       | 7.93          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3  | 12       | 7.93          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 3        | 7.93          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 3        | 7.93          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 1        | 7.93          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 11       | 7.93          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 14       | 7.93          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 18       | 7.93          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 5        | 7.93          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 5        | 7.93          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 3        | 7.93          |
| (1,1648) | 1:A:6:GLN:HB3  | 1:A:22:GLN:HA  | 4        | 7.93          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 3        | 7.93          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 3        | 7.93          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 6        | 7.93          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 4        | 7.93          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 4        | 7.93          |
| (1,1423) | 1:A:5:GLY:H    | 1:A:20:CYS:H   | 7        | 7.93          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 17       | 7.93          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 19       | 7.93          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 7        | 7.93          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 7        | 7.93          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 6        | 7.93          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 3        | 7.93          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 15       | 7.93          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 19       | 7.93          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 11       | 7.92          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 12       | 7.92          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 13       | 7.92          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2 | 2        | 7.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H    | 7        | 7.92          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H    | 16       | 7.92          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H    | 19       | 7.92          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2  | 14       | 7.92          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3  | 14       | 7.92          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H    | 20       | 7.92          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H    | 19       | 7.92          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H    | 19       | 7.92          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG   | 16       | 7.92          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1  | 9        | 7.92          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2  | 10       | 7.92          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2  | 9        | 7.92          |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA   | 18       | 7.92          |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA   | 19       | 7.92          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2  | 10       | 7.92          |
| (1,4647) | 1:A:26:CYS:HA   | 1:A:34:ALA:HA   | 7        | 7.92          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2  | 9        | 7.92          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3  | 9        | 7.92          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H    | 11       | 7.92          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H    | 11       | 7.92          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2  | 6        | 7.92          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2  | 6        | 7.92          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3  | 6        | 7.92          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3  | 6        | 7.92          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2  | 1        | 7.92          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 20       | 7.92          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 20       | 7.92          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 18       | 7.92          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 18       | 7.92          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 18       | 7.92          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 10       | 7.92          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA   | 11       | 7.92          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 3        | 7.92          |
| (1,4240) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HB3  | 16       | 7.92          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA   | 10       | 7.92          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 19       | 7.92          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 16       | 7.92          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 16       | 7.92          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 13       | 7.92          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 13       | 7.92          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 4        | 7.92          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 4        | 7.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 19       | 7.92          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 1        | 7.92          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 1        | 7.92          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 11       | 7.92          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 11       | 7.92          |
| (1,3805) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HB2  | 14       | 7.92          |
| (1,3805) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HB2  | 14       | 7.92          |
| (1,3805) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HB2  | 14       | 7.92          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 2        | 7.92          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 19       | 7.92          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 19       | 7.92          |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3  | 11       | 7.92          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 20       | 7.92          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 20       | 7.92          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1  | 11       | 7.92          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2  | 11       | 7.92          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 18       | 7.92          |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H    | 13       | 7.92          |
| (1,2108) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HB2  | 14       | 7.92          |
| (1,2108) | 1:A:8:GLY:HA3   | 1:A:18:LEU:HB3  | 14       | 7.92          |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB2  | 9        | 7.92          |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB3  | 9        | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2  | 7        | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3  | 7        | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2  | 16       | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3  | 16       | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2  | 18       | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3  | 18       | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2  | 19       | 7.92          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3  | 19       | 7.92          |
| (1,1897) | 1:A:6:GLN:HE22  | 1:A:26:CYS:HA   | 5        | 7.92          |
| (1,1897) | 1:A:6:GLN:HE22  | 1:A:26:CYS:HA   | 15       | 7.92          |
| (1,1834) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HA   | 14       | 7.92          |
| (1,1796) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HG2   | 16       | 7.92          |
| (1,1796) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HG3   | 16       | 7.92          |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3   | 4        | 7.92          |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2  | 16       | 7.92          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2   | 9        | 7.92          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB3   | 9        | 7.92          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB2   | 20       | 7.92          |
| (1,1320) | 1:A:4:ASN:HD22  | 1:A:7:CYS:HB3   | 20       | 7.92          |
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE1  | 7        | 7.92          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 7        | 7.92          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 15       | 7.92          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 13       | 7.92          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 10       | 7.92          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 8        | 7.92          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 7        | 7.92          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 13       | 7.92          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 18       | 7.92          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 3        | 7.91          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 3        | 7.91          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 2        | 7.91          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 3        | 7.91          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 8        | 7.91          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 9        | 7.91          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 12       | 7.91          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 20       | 7.91          |
| (1,757)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HG  | 7        | 7.91          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 15       | 7.91          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 8        | 7.91          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 12       | 7.91          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 7        | 7.91          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 7        | 7.91          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2 | 6        | 7.91          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 20       | 7.91          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1 | 2        | 7.91          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2 | 2        | 7.91          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3 | 2        | 7.91          |
| (1,4647) | 1:A:26:CYS:HA  | 1:A:34:ALA:HA  | 16       | 7.91          |
| (1,4569) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HA  | 2        | 7.91          |
| (1,4569) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HA  | 2        | 7.91          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 3        | 7.91          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 3        | 7.91          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 3        | 7.91          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 3        | 7.91          |
| (1,4536) | 1:A:25:TYR:HB2 | 1:A:31:LYS:H   | 2        | 7.91          |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 4        | 7.91          |
| (1,4501) | 1:A:24:GLY:HA3 | 1:A:35:HIS:HD2 | 11       | 7.91          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 4        | 7.91          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 4        | 7.91          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 4        | 7.91          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 4        | 7.91          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 13       | 7.91          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H    | 13       | 7.91          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1  | 7        | 7.91          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 7        | 7.91          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 15       | 7.91          |
| (1,4191) | 1:A:22:GLN:HB2  | 1:A:29:GLY:HA3  | 8        | 7.91          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2  | 13       | 7.91          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3  | 13       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 18       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 18       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 19       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 19       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB2  | 20       | 7.91          |
| (1,4030) | 1:A:21:SER:H    | 1:A:30:PRO:HB3  | 20       | 7.91          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 13       | 7.91          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1  | 2        | 7.91          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2  | 2        | 7.91          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 5        | 7.91          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 5        | 7.91          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 5        | 7.91          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 5        | 7.91          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 5        | 7.91          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 5        | 7.91          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 11       | 7.91          |
| (1,3703) | 1:A:18:LEU:HB2  | 1:A:35:HIS:HB3  | 12       | 7.91          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 8        | 7.91          |
| (1,3214) | 1:A:14:CYS:HB2  | 1:A:30:PRO:HA   | 8        | 7.91          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 7        | 7.91          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 16       | 7.91          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 19       | 7.91          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD1  | 15       | 7.91          |
| (1,3114) | 1:A:13:GLY:H    | 1:A:25:TYR:HD2  | 15       | 7.91          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 14       | 7.91          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 14       | 7.91          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 20       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 14       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD12 | 14       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD13 | 14       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD21 | 14       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD22 | 14       | 7.91          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD23 | 14       | 7.91          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2  | 12       | 7.91          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3  | 12       | 7.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 1        | 7.91          |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 11       | 7.91          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 2        | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 16       | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 16       | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 18       | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 18       | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 19       | 7.91          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 19       | 7.91          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 10       | 7.91          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 10       | 7.91          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 4        | 7.91          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 4        | 7.91          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 4        | 7.91          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 4        | 7.91          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 2        | 7.91          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 4        | 7.91          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 10       | 7.91          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 11       | 7.91          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 1        | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 7        | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 7        | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 8        | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 8        | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 11       | 7.91          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 11       | 7.91          |
| (1,1739) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HA    | 17       | 7.91          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 19       | 7.91          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 19       | 7.91          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 11       | 7.91          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 2        | 7.91          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 2        | 7.91          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 1        | 7.91          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 1        | 7.91          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 17       | 7.91          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 7        | 7.91          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H    | 12       | 7.91          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 7        | 7.9           |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 16       | 7.9           |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 18       | 7.9           |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 19       | 7.9           |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 10       | 7.9           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 10       | 7.9           |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 12       | 7.9           |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 6        | 7.9           |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 11       | 7.9           |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 12       | 7.9           |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 20       | 7.9           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 19       | 7.9           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 19       | 7.9           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 19       | 7.9           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 19       | 7.9           |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 18       | 7.9           |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 18       | 7.9           |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG  | 11       | 7.9           |
| (1,519)  | 1:A:1:SER:HA   | 1:A:18:LEU:HG  | 19       | 7.9           |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1 | 6        | 7.9           |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1 | 6        | 7.9           |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 7        | 7.9           |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 7        | 7.9           |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD2 | 19       | 7.9           |
| (1,4640) | 1:A:26:CYS:HA  | 1:A:31:LYS:HD3 | 19       | 7.9           |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 4        | 7.9           |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 4        | 7.9           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 1        | 7.9           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 1        | 7.9           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 11       | 7.9           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 11       | 7.9           |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2 | 2        | 7.9           |
| (1,4570) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HB2 | 2        | 7.9           |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 4        | 7.9           |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 13       | 7.9           |
| (1,4537) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HA  | 17       | 7.9           |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 1        | 7.9           |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 19       | 7.9           |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3 | 20       | 7.9           |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB1 | 4        | 7.9           |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB2 | 4        | 7.9           |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB3 | 4        | 7.9           |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2 | 12       | 7.9           |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3 | 12       | 7.9           |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 3        | 7.9           |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 3        | 7.9           |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 8        | 7.9           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 8        | 7.9           |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 8        | 7.9           |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 8        | 7.9           |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2  | 6        | 7.9           |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2  | 6        | 7.9           |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3  | 6        | 7.9           |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3  | 6        | 7.9           |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 6        | 7.9           |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 6        | 7.9           |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 9        | 7.9           |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 9        | 7.9           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2  | 16       | 7.9           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2  | 16       | 7.9           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3  | 16       | 7.9           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3  | 16       | 7.9           |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 11       | 7.9           |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 16       | 7.9           |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA   | 19       | 7.9           |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2  | 19       | 7.9           |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 8        | 7.9           |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 8        | 7.9           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 3        | 7.9           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 3        | 7.9           |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 6        | 7.9           |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 18       | 7.9           |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 18       | 7.9           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 1        | 7.9           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 1        | 7.9           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 7        | 7.9           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 7        | 7.9           |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 15       | 7.9           |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 15       | 7.9           |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 15       | 7.9           |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 3        | 7.9           |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 6        | 7.9           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB2  | 16       | 7.9           |
| (1,3656) | 1:A:18:LEU:H    | 1:A:30:PRO:HB3  | 16       | 7.9           |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 1        | 7.9           |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 1        | 7.9           |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 7        | 7.9           |
| (1,3432) | 1:A:15:ARG:HE   | 1:A:27:GLY:H    | 7        | 7.9           |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H    | 10       | 7.9           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H    | 10       | 7.9           |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H    | 6        | 7.9           |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H    | 6        | 7.9           |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H    | 5        | 7.9           |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 5        | 7.9           |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H    | 9        | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 16       | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 16       | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 18       | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 18       | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 19       | 7.9           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 19       | 7.9           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 7        | 7.9           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 7        | 7.9           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1  | 14       | 7.9           |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2  | 14       | 7.9           |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 15       | 7.9           |
| (1,2899) | 1:A:11:TRP:HZ3 | 1:A:13:GLY:H    | 3        | 7.9           |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 14       | 7.9           |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 14       | 7.9           |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 14       | 7.9           |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 13       | 7.9           |
| (1,2738) | 1:A:11:TRP:HD1 | 1:A:20:CYS:H    | 17       | 7.9           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 16       | 7.9           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 16       | 7.9           |
| (1,2364) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE3  | 15       | 7.9           |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 8        | 7.9           |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 8        | 7.9           |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 1        | 7.9           |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 1        | 7.9           |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 14       | 7.9           |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 14       | 7.9           |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 19       | 7.9           |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 6        | 7.9           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 6        | 7.9           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 6        | 7.9           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 6        | 7.9           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 19       | 7.9           |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 19       | 7.9           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 4        | 7.9           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 4        | 7.9           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 15       | 7.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1402) | 1:A:5:GLY:H     | 1:A:9:PRO:HD2  | 14       | 7.9           |
| (1,1402) | 1:A:5:GLY:H     | 1:A:9:PRO:HD3  | 14       | 7.9           |
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H   | 17       | 7.9           |
| (1,1095) | 1:A:4:ASN:H     | 1:A:27:GLY:H   | 11       | 7.9           |
| (1,1095) | 1:A:4:ASN:H     | 1:A:27:GLY:H   | 12       | 7.9           |
| (1,1000) | 1:A:3:PRO:HD3   | 1:A:8:GLY:H    | 16       | 7.9           |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 15       | 7.89          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 15       | 7.89          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 4        | 7.89          |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3 | 11       | 7.89          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 3        | 7.89          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 3        | 7.89          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 19       | 7.89          |
| (1,632)  | 1:A:2:GLY:H     | 1:A:21:SER:HG  | 12       | 7.89          |
| (1,621)  | 1:A:2:GLY:H     | 1:A:15:ARG:HE  | 19       | 7.89          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 6        | 7.89          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 6        | 7.89          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 7        | 7.89          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 15       | 7.89          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1 | 6        | 7.89          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2 | 6        | 7.89          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3 | 6        | 7.89          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 1        | 7.89          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 1        | 7.89          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 4        | 7.89          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 4        | 7.89          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 4        | 7.89          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 4        | 7.89          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 6        | 7.89          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 6        | 7.89          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 18       | 7.89          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 18       | 7.89          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 10       | 7.89          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 10       | 7.89          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 20       | 7.89          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 20       | 7.89          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 20       | 7.89          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 20       | 7.89          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 8        | 7.89          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 13       | 7.89          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 3        | 7.89          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 10       | 7.89          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 3        | 7.89          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 14       | 7.89          |
| (1,4229) | 1:A:22:GLN:HB3  | 1:A:27:GLY:HA2 | 12       | 7.89          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 2        | 7.89          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 13       | 7.89          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 18       | 7.89          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 19       | 7.89          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 6        | 7.89          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 15       | 7.89          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 17       | 7.89          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 9        | 7.89          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 9        | 7.89          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 9        | 7.89          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 15       | 7.89          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H   | 1        | 7.89          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H   | 5        | 7.89          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 3        | 7.89          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H   | 17       | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 2        | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 2        | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 2        | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 4        | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 4        | 7.89          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 4        | 7.89          |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 10       | 7.89          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 19       | 7.89          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 15       | 7.89          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 15       | 7.89          |
| (1,3433) | 1:A:15:ARG:HE   | 1:A:27:GLY:HA3 | 1        | 7.89          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H   | 7        | 7.89          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H   | 7        | 7.89          |
| (1,3363) | 1:A:15:ARG:HG2  | 1:A:21:SER:HB3 | 14       | 7.89          |
| (1,3363) | 1:A:15:ARG:HG3  | 1:A:21:SER:HB3 | 14       | 7.89          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 17       | 7.89          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 4        | 7.89          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 6        | 7.89          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H   | 17       | 7.89          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA  | 11       | 7.89          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2 | 17       | 7.89          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3 | 17       | 7.89          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 14       | 7.89          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 14       | 7.89          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 2        | 7.89          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 10       | 7.89          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 5        | 7.89          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 5        | 7.89          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 7        | 7.89          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 15       | 7.89          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 12       | 7.89          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 12       | 7.89          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 5        | 7.89          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 5        | 7.89          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 5        | 7.89          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 5        | 7.89          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 3        | 7.89          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 3        | 7.89          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 18       | 7.89          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 8        | 7.89          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 20       | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 1        | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 1        | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 18       | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 18       | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 20       | 7.89          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 20       | 7.89          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 14       | 7.89          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE21 | 7        | 7.89          |
| (1,1566) | 1:A:6:GLN:HA   | 1:A:22:GLN:HE22 | 7        | 7.89          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 6        | 7.89          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 6        | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 4        | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 4        | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 6        | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 6        | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 10       | 7.89          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 10       | 7.89          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2  | 12       | 7.89          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3  | 12       | 7.89          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 15       | 7.89          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 15       | 7.89          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 6        | 7.89          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 18       | 7.89          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H    | 16       | 7.89          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 2        | 7.89          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 13       | 7.88          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H   | 19       | 7.88          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 14       | 7.88          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 14       | 7.88          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 14       | 7.88          |
| (1,519)  | 1:A:1:SER:HA    | 1:A:18:LEU:HG  | 20       | 7.88          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2 | 14       | 7.88          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 17       | 7.88          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 17       | 7.88          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 17       | 7.88          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 9        | 7.88          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 4        | 7.88          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 18       | 7.88          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 18       | 7.88          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 18       | 7.88          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 18       | 7.88          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 18       | 7.88          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 18       | 7.88          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 6        | 7.88          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 6        | 7.88          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 3        | 7.88          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 11       | 7.88          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 10       | 7.88          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 10       | 7.88          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 6        | 7.88          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 6        | 7.88          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 15       | 7.88          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 11       | 7.88          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 7        | 7.88          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 9        | 7.88          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 9        | 7.88          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 3        | 7.88          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 4        | 7.88          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 16       | 7.88          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 8        | 7.88          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 4        | 7.88          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 4        | 7.88          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 11       | 7.88          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 1        | 7.88          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 1        | 7.88          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 16       | 7.88          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 16       | 7.88          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 6        | 7.88          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 6        | 7.88          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 3        | 7.88          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 3        | 7.88          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 3        | 7.88          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 8        | 7.88          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 8        | 7.88          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 8        | 7.88          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 15       | 7.88          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 15       | 7.88          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 15       | 7.88          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 1        | 7.88          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 11       | 7.88          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 17       | 7.88          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 17       | 7.88          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 12       | 7.88          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 18       | 7.88          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 17       | 7.88          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 17       | 7.88          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H    | 8        | 7.88          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H    | 12       | 7.88          |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H    | 15       | 7.88          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD1  | 14       | 7.88          |
| (1,3237) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HD2  | 14       | 7.88          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1  | 15       | 7.88          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2  | 15       | 7.88          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3  | 13       | 7.88          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 18       | 7.88          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 19       | 7.88          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 10       | 7.88          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 10       | 7.88          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 2        | 7.88          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 5        | 7.88          |
| (1,2899) | 1:A:11:TRP:HZ3  | 1:A:13:GLY:H    | 10       | 7.88          |
| (1,2778) | 1:A:11:TRP:HE3  | 1:A:14:CYS:H    | 9        | 7.88          |
| (1,2741) | 1:A:11:TRP:HD1  | 1:A:21:SER:HG   | 6        | 7.88          |
| (1,2687) | 1:A:11:TRP:HB3  | 1:A:20:CYS:H    | 12       | 7.88          |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG2  | 1        | 7.88          |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG3  | 1        | 7.88          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE1  | 17       | 7.88          |
| (1,2552) | 1:A:10:GLY:HA3  | 1:A:25:TYR:HE2  | 17       | 7.88          |
| (1,2457) | 1:A:9:PRO:HD2   | 1:A:35:HIS:HE1  | 1        | 7.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 1        | 7.88          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H   | 18       | 7.88          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H   | 19       | 7.88          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 18       | 7.88          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 18       | 7.88          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 9        | 7.88          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 2        | 7.88          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 10       | 7.88          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 6        | 7.88          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 14       | 7.88          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 2        | 7.88          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 1        | 7.88          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2 | 8        | 7.88          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3 | 8        | 7.88          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 2        | 7.88          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 2        | 7.88          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 3        | 7.88          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 3        | 7.88          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 5        | 7.88          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 5        | 7.88          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 8        | 7.88          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 12       | 7.88          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 20       | 7.88          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 20       | 7.88          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3 | 1        | 7.88          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 1        | 7.88          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 15       | 7.88          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 19       | 7.88          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 6        | 7.88          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 20       | 7.88          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 8        | 7.88          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 1        | 7.87          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 1        | 7.87          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 20       | 7.87          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 20       | 7.87          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 3        | 7.87          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 6        | 7.87          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 1        | 7.87          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 20       | 7.87          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 20       | 7.87          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2 | 6        | 7.87          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3 | 6        | 7.87          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2  | 12       | 7.87          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2  | 12       | 7.87          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2  | 12       | 7.87          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3  | 12       | 7.87          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3  | 12       | 7.87          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3  | 12       | 7.87          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ1  | 8        | 7.87          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ2  | 8        | 7.87          |
| (1,4660) | 1:A:26:CYS:HB2  | 1:A:31:LYS:HZ3  | 8        | 7.87          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2  | 10       | 7.87          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3  | 10       | 7.87          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H    | 13       | 7.87          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H    | 13       | 7.87          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3  | 11       | 7.87          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3  | 14       | 7.87          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2  | 7        | 7.87          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3  | 7        | 7.87          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H    | 16       | 7.87          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H    | 16       | 7.87          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H    | 3        | 7.87          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H    | 3        | 7.87          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2  | 1        | 7.87          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2  | 1        | 7.87          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 9        | 7.87          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 18       | 7.87          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2  | 15       | 7.87          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2  | 3        | 7.87          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3  | 3        | 7.87          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H    | 10       | 7.87          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3  | 1        | 7.87          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 18       | 7.87          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 18       | 7.87          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2  | 12       | 7.87          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3  | 12       | 7.87          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 11       | 7.87          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 19       | 7.87          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 19       | 7.87          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 7        | 7.87          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 7        | 7.87          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 1        | 7.87          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 1        | 7.87          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 17       | 7.87          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 17       | 7.87          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 17       | 7.87          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 17       | 7.87          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 11       | 7.87          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 11       | 7.87          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 11       | 7.87          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA   | 7        | 7.87          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 14       | 7.87          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 14       | 7.87          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 3        | 7.87          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3  | 1        | 7.87          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3  | 14       | 7.87          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 7        | 7.87          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 8        | 7.87          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 5        | 7.87          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 5        | 7.87          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2  | 1        | 7.87          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3  | 1        | 7.87          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA   | 15       | 7.87          |
| (1,2741) | 1:A:11:TRP:HD1  | 1:A:21:SER:HG   | 4        | 7.87          |
| (1,2741) | 1:A:11:TRP:HD1  | 1:A:21:SER:HG   | 10       | 7.87          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD11 | 8        | 7.87          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD12 | 8        | 7.87          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD13 | 8        | 7.87          |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2  | 15       | 7.87          |
| (1,2113) | 1:A:8:GLY:HA3   | 1:A:22:GLN:H    | 13       | 7.87          |
| (1,2113) | 1:A:8:GLY:HA3   | 1:A:22:GLN:H    | 16       | 7.87          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA2  | 15       | 7.87          |
| (1,2062) | 1:A:8:GLY:H     | 1:A:27:GLY:HA3  | 15       | 7.87          |
| (1,1976) | 1:A:7:CYS:HA    | 1:A:22:GLN:H    | 5        | 7.87          |
| (1,1976) | 1:A:7:CYS:HA    | 1:A:22:GLN:H    | 6        | 7.87          |
| (1,1968) | 1:A:7:CYS:H     | 1:A:32:TYR:HA   | 6        | 7.87          |
| (1,1872) | 1:A:6:GLN:HE22  | 1:A:12:GLY:HA3  | 14       | 7.87          |
| (1,1756) | 1:A:6:GLN:HG3   | 1:A:20:CYS:H    | 12       | 7.87          |
| (1,1705) | 1:A:6:GLN:HG2   | 1:A:13:GLY:H    | 4        | 7.87          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD1  | 4        | 7.87          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD2  | 4        | 7.87          |
| (1,1645) | 1:A:6:GLN:HB3   | 1:A:21:SER:HB2  | 5        | 7.87          |
| (1,1645) | 1:A:6:GLN:HB3   | 1:A:21:SER:HB2  | 10       | 7.87          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB2  | 14       | 7.87          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB3  | 14       | 7.87          |
| (1,1518) | 1:A:6:GLN:H     | 1:A:19:CYS:HA   | 5        | 7.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 14       | 7.87          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 14       | 7.87          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 13       | 7.87          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 10       | 7.87          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 10       | 7.87          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 1        | 7.87          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 1        | 7.87          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 11       | 7.87          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 11       | 7.87          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2  | 3        | 7.87          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3  | 3        | 7.87          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 3        | 7.87          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 3        | 7.87          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 19       | 7.87          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 9        | 7.87          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 5        | 7.87          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 13       | 7.87          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 4        | 7.86          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 14       | 7.86          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 15       | 7.86          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 9        | 7.86          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 9        | 7.86          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 9        | 7.86          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2  | 4        | 7.86          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3  | 4        | 7.86          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 1        | 7.86          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 1        | 7.86          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 7        | 7.86          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 19       | 7.86          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 18       | 7.86          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 18       | 7.86          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 18       | 7.86          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 18       | 7.86          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 4        | 7.86          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 10       | 7.86          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1 | 1        | 7.86          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 16       | 7.86          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 16       | 7.86          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 17       | 7.86          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG2 | 19       | 7.86          |
| (1,4672) | 1:A:26:CYS:HB3 | 1:A:31:LYS:HG3 | 19       | 7.86          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 17       | 7.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 17       | 7.86          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 3        | 7.86          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 3        | 7.86          |
| (1,4515) | 1:A:25:TYR:H    | 1:A:31:LYS:HA  | 2        | 7.86          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 2        | 7.86          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 2        | 7.86          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 2        | 7.86          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 20       | 7.86          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 2        | 7.86          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 2        | 7.86          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 2        | 7.86          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 2        | 7.86          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 11       | 7.86          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 11       | 7.86          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 13       | 7.86          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 10       | 7.86          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 11       | 7.86          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 7        | 7.86          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 7        | 7.86          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 2        | 7.86          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 9        | 7.86          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 9        | 7.86          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 17       | 7.86          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 3        | 7.86          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 6        | 7.86          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 6        | 7.86          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 20       | 7.86          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 15       | 7.86          |
| (1,3965) | 1:A:20:CYS:HB2  | 1:A:28:SER:HB3 | 17       | 7.86          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 1        | 7.86          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 1        | 7.86          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 1        | 7.86          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 1        | 7.86          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 1        | 7.86          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 13       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 18       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 18       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 18       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 19       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 19       | 7.86          |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 19       | 7.86          |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2 | 10       | 7.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD1  | 16       | 7.86          |
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2  | 16       | 7.86          |
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA   | 10       | 7.86          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1  | 14       | 7.86          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2  | 14       | 7.86          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 4        | 7.86          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 17       | 7.86          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 20       | 7.86          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1  | 2        | 7.86          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2  | 2        | 7.86          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 15       | 7.86          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 2        | 7.86          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 5        | 7.86          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 16       | 7.86          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 16       | 7.86          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 16       | 7.86          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 8        | 7.86          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 5        | 7.86          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2  | 3        | 7.86          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2  | 3        | 7.86          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD1  | 17       | 7.86          |
| (1,2134) | 1:A:8:GLY:HA3  | 1:A:32:TYR:HD2  | 17       | 7.86          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 7        | 7.86          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 8        | 7.86          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 20       | 7.86          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 16       | 7.86          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 16       | 7.86          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2  | 9        | 7.86          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3  | 9        | 7.86          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 2        | 7.86          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 2        | 7.86          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 4        | 7.86          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 4        | 7.86          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 16       | 7.86          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 16       | 7.86          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 16       | 7.86          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 16       | 7.86          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 12       | 7.86          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 1        | 7.86          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 7        | 7.86          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 4        | 7.86          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 4        | 7.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 4        | 7.86          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 4        | 7.86          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 13       | 7.86          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 13       | 7.86          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 12       | 7.86          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 12       | 7.86          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 2        | 7.86          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 17       | 7.86          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 10       | 7.86          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 5        | 7.86          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 5        | 7.86          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA2  | 9        | 7.86          |
| (1,1416) | 1:A:5:GLY:H    | 1:A:16:GLY:HA3  | 9        | 7.86          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 6        | 7.86          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 6        | 7.86          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 15       | 7.86          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 15       | 7.86          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 13       | 7.86          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 13       | 7.86          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 20       | 7.86          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 20       | 7.86          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 7        | 7.86          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3  | 10       | 7.86          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 2        | 7.86          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 5        | 7.86          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 10       | 7.86          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 16       | 7.86          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 18       | 7.86          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 11       | 7.86          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 17       | 7.86          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 2        | 7.85          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 2        | 7.85          |
| (1,754)  | 1:A:3:PRO:HA   | 1:A:14:CYS:HB2  | 10       | 7.85          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 12       | 7.85          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 16       | 7.85          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H    | 8        | 7.85          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 17       | 7.85          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 17       | 7.85          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H    | 18       | 7.85          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H    | 16       | 7.85          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H    | 17       | 7.85          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3  | 1        | 7.85          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3  | 1        | 7.85          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H    | 3        | 7.85          |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE   | 6        | 7.85          |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2  | 5        | 7.85          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H    | 5        | 7.85          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H    | 6        | 7.85          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H    | 19       | 7.85          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1  | 17       | 7.85          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2  | 17       | 7.85          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3  | 17       | 7.85          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2  | 6        | 7.85          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3  | 6        | 7.85          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2  | 10       | 7.85          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 10       | 7.85          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 10       | 7.85          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 10       | 7.85          |
| (1,4392) | 1:A:23:TYR:HB3  | 1:A:35:HIS:HE1  | 19       | 7.85          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3  | 1        | 7.85          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 12       | 7.85          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2  | 16       | 7.85          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 2        | 7.85          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 6        | 7.85          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H    | 3        | 7.85          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2  | 7        | 7.85          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3  | 7        | 7.85          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1  | 1        | 7.85          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2  | 1        | 7.85          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 13       | 7.85          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 13       | 7.85          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 19       | 7.85          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 2        | 7.85          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 4        | 7.85          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 12       | 7.85          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 12       | 7.85          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 12       | 7.85          |
| (1,3803) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HA   | 14       | 7.85          |
| (1,3803) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HA   | 14       | 7.85          |
| (1,3803) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HA   | 14       | 7.85          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 2        | 7.85          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 2        | 7.85          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 2        | 7.85          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 9        | 7.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1  | 14       | 7.85          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2  | 14       | 7.85          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3  | 14       | 7.85          |
| (1,3593) | 1:A:17:GLY:HA2 | 1:A:20:CYS:HB2  | 13       | 7.85          |
| (1,3573) | 1:A:17:GLY:H   | 1:A:30:PRO:HA   | 20       | 7.85          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H    | 7        | 7.85          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H    | 7        | 7.85          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3  | 15       | 7.85          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3  | 15       | 7.85          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2  | 11       | 7.85          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2  | 11       | 7.85          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3  | 11       | 7.85          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3  | 11       | 7.85          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB1  | 8        | 7.85          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB2  | 8        | 7.85          |
| (1,3167) | 1:A:13:GLY:HA3 | 1:A:34:ALA:HB3  | 8        | 7.85          |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H    | 12       | 7.85          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1  | 16       | 7.85          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2  | 16       | 7.85          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 1        | 7.85          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 1        | 7.85          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 3        | 7.85          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 11       | 7.85          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 7        | 7.85          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 7        | 7.85          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 16       | 7.85          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 16       | 7.85          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 20       | 7.85          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 20       | 7.85          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 12       | 7.85          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 12       | 7.85          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 12       | 7.85          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 12       | 7.85          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 1        | 7.85          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 1        | 7.85          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 1        | 7.85          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 1        | 7.85          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 8        | 7.85          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 10       | 7.85          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 11       | 7.85          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 12       | 7.85          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H    | 15       | 7.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 5        | 7.85          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 3        | 7.85          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 3        | 7.85          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 3        | 7.85          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 9        | 7.85          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H    | 10       | 7.85          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 7        | 7.85          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 7        | 7.85          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1  | 2        | 7.85          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2  | 2        | 7.85          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 3        | 7.85          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 5        | 7.85          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 5        | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 11       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 11       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 13       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 13       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 19       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 19       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2   | 20       | 7.85          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3   | 20       | 7.85          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB2   | 4        | 7.85          |
| (1,1320) | 1:A:4:ASN:HD22 | 1:A:7:CYS:HB3   | 4        | 7.85          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 15       | 7.85          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 3        | 7.85          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 12       | 7.85          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 6        | 7.84          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 6        | 7.84          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 19       | 7.84          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 19       | 7.84          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 8        | 7.84          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 8        | 7.84          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 15       | 7.84          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 15       | 7.84          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H    | 7        | 7.84          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 7        | 7.84          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 1        | 7.84          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 1        | 7.84          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 1        | 7.84          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 10       | 7.84          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA   | 10       | 7.84          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H    | 7        | 7.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 7        | 7.84          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 9        | 7.84          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 9        | 7.84          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 13       | 7.84          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 13       | 7.84          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 15       | 7.84          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 15       | 7.84          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 1        | 7.84          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 1        | 7.84          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 1        | 7.84          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 1        | 7.84          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 12       | 7.84          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 12       | 7.84          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 15       | 7.84          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 16       | 7.84          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB1 | 13       | 7.84          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB2 | 13       | 7.84          |
| (1,4500) | 1:A:24:GLY:HA3  | 1:A:34:ALA:HB3 | 13       | 7.84          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 5        | 7.84          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 5        | 7.84          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 1        | 7.84          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 1        | 7.84          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 2        | 7.84          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 2        | 7.84          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 2        | 7.84          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 2        | 7.84          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 17       | 7.84          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 17       | 7.84          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 17       | 7.84          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 17       | 7.84          |
| (1,4416) | 1:A:23:TYR:HE1  | 1:A:26:CYS:HB2 | 14       | 7.84          |
| (1,4416) | 1:A:23:TYR:HE2  | 1:A:26:CYS:HB2 | 14       | 7.84          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 5        | 7.84          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 5        | 7.84          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 9        | 7.84          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 4        | 7.84          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 4        | 7.84          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 11       | 7.84          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 11       | 7.84          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 10       | 7.84          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 1        | 7.84          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 1        | 7.84          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA   | 11       | 7.84          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 15       | 7.84          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 4        | 7.84          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 9        | 7.84          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 9        | 7.84          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 2        | 7.84          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 16       | 7.84          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 16       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG2  | 14       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HG3  | 14       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG2  | 14       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HG3  | 14       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG2  | 14       | 7.84          |
| (1,3784) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HG3  | 14       | 7.84          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 11       | 7.84          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 11       | 7.84          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 11       | 7.84          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 4        | 7.84          |
| (1,3684) | 1:A:18:LEU:HB2  | 1:A:24:GLY:H    | 14       | 7.84          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H    | 4        | 7.84          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 12       | 7.84          |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 4        | 7.84          |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H    | 5        | 7.84          |
| (1,3302) | 1:A:15:ARG:HB2  | 1:A:25:TYR:HB3  | 11       | 7.84          |
| (1,3236) | 1:A:14:CYS:HB3  | 1:A:23:TYR:HB2  | 14       | 7.84          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE1  | 14       | 7.84          |
| (1,3208) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HE2  | 14       | 7.84          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H    | 12       | 7.84          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB2  | 8        | 7.84          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB3  | 8        | 7.84          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB2  | 12       | 7.84          |
| (1,2794) | 1:A:11:TRP:HE3  | 1:A:20:CYS:HB3  | 12       | 7.84          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 14       | 7.84          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 14       | 7.84          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 14       | 7.84          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2  | 9        | 7.84          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3  | 9        | 7.84          |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2  | 12       | 7.84          |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2  | 13       | 7.84          |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2  | 16       | 7.84          |
| (1,2364) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE3  | 13       | 7.84          |
| (1,2113) | 1:A:8:GLY:HA3   | 1:A:22:GLN:H    | 12       | 7.84          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 12       | 7.84          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 12       | 7.84          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG2 | 12       | 7.84          |
| (1,2107) | 1:A:8:GLY:HA3  | 1:A:15:ARG:HG3 | 12       | 7.84          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 13       | 7.84          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 13       | 7.84          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 13       | 7.84          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 13       | 7.84          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 9        | 7.84          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3 | 8        | 7.84          |
| (1,1869) | 1:A:6:GLN:HE22 | 1:A:10:GLY:H   | 13       | 7.84          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 15       | 7.84          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2  | 15       | 7.84          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3  | 15       | 7.84          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 2        | 7.84          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 3        | 7.84          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 5        | 7.84          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 6        | 7.84          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 4        | 7.84          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 4        | 7.84          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 7        | 7.84          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 7        | 7.84          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 12       | 7.84          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 12       | 7.84          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 4        | 7.84          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 3        | 7.84          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 3        | 7.84          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 4        | 7.84          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 4        | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 7        | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 7        | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 8        | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 8        | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 12       | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 12       | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 16       | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 16       | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 18       | 7.84          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 18       | 7.84          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 8        | 7.84          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 8        | 7.84          |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H    | 11       | 7.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 16       | 7.84          |
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3  | 2        | 7.84          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H    | 19       | 7.84          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 11       | 7.84          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 11       | 7.84          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD2  | 13       | 7.83          |
| (1,848)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HD3  | 13       | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 1        | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 1        | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 1        | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 12       | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 12       | 7.83          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 12       | 7.83          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA   | 5        | 7.83          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1  | 7        | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 11       | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 11       | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 12       | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 12       | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 19       | 7.83          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 19       | 7.83          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 4        | 7.83          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 18       | 7.83          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 18       | 7.83          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 16       | 7.83          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 16       | 7.83          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1  | 1        | 7.83          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H    | 5        | 7.83          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H    | 5        | 7.83          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H    | 19       | 7.83          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H    | 19       | 7.83          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H    | 20       | 7.83          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H    | 20       | 7.83          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2  | 12       | 7.83          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3  | 12       | 7.83          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2  | 12       | 7.83          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3  | 12       | 7.83          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2  | 1        | 7.83          |
| (1,4535) | 1:A:25:TYR:HB2 | 1:A:29:GLY:HA3  | 8        | 7.83          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB1  | 15       | 7.83          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB2  | 15       | 7.83          |
| (1,4500) | 1:A:24:GLY:HA3 | 1:A:34:ALA:HB3  | 15       | 7.83          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 19       | 7.83          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 19       | 7.83          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB2 | 14       | 7.83          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB2 | 14       | 7.83          |
| (1,4423) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HB3 | 14       | 7.83          |
| (1,4423) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HB3 | 14       | 7.83          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 12       | 7.83          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 12       | 7.83          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 19       | 7.83          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 19       | 7.83          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 7        | 7.83          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 7        | 7.83          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 12       | 7.83          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 2        | 7.83          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD2 | 16       | 7.83          |
| (1,4235) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HD3 | 16       | 7.83          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 20       | 7.83          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 5        | 7.83          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 6        | 7.83          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 20       | 7.83          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 2        | 7.83          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 11       | 7.83          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 3        | 7.83          |
| (1,4174) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HB2 | 10       | 7.83          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 3        | 7.83          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 10       | 7.83          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 10       | 7.83          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 1        | 7.83          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 11       | 7.83          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 2        | 7.83          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 2        | 7.83          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 2        | 7.83          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 2        | 7.83          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 7        | 7.83          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 7        | 7.83          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 7        | 7.83          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 9        | 7.83          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 9        | 7.83          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 3        | 7.83          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H   | 10       | 7.83          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2 | 1        | 7.83          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1 | 20       | 7.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3543) | 1:A:16:GLY:HA3 | 1:A:32:TYR:HD2  | 20       | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 7        | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 7        | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 18       | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 18       | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 19       | 7.83          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 19       | 7.83          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 2        | 7.83          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 3        | 7.83          |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H    | 10       | 7.83          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3  | 14       | 7.83          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 1        | 7.83          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 11       | 7.83          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA   | 9        | 7.83          |
| (1,3055) | 1:A:12:GLY:HA3 | 1:A:21:SER:H    | 17       | 7.83          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 6        | 7.83          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 11       | 7.83          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 9        | 7.83          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 16       | 7.83          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 18       | 7.83          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 19       | 7.83          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 20       | 7.83          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 18       | 7.83          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 18       | 7.83          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 19       | 7.83          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 19       | 7.83          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 10       | 7.83          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 10       | 7.83          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 1        | 7.83          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 1        | 7.83          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 14       | 7.83          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 20       | 7.83          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 16       | 7.83          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 20       | 7.83          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 2        | 7.83          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 2        | 7.83          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 2        | 7.83          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 9        | 7.83          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 9        | 7.83          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 2        | 7.83          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2  | 2        | 7.83          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1  | 8        | 7.83          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 8        | 7.83          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 14       | 7.83          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 17       | 7.83          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1 | 14       | 7.83          |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2 | 14       | 7.83          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 10       | 7.83          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 10       | 7.83          |
| (1,1076) | 1:A:4:ASN:H    | 1:A:21:SER:H   | 7        | 7.83          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 9        | 7.82          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 18       | 7.82          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 18       | 7.82          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 2        | 7.82          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 10       | 7.82          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 3        | 7.82          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 8        | 7.82          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 19       | 7.82          |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 20       | 7.82          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2  | 2        | 7.82          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3  | 2        | 7.82          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 18       | 7.82          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 2        | 7.82          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 6        | 7.82          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 11       | 7.82          |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 11       | 7.82          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 3        | 7.82          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 2        | 7.82          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 2        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 3        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 3        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 4        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 4        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 6        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 6        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 8        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 8        | 7.82          |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 14       | 7.82          |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 14       | 7.82          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 10       | 7.82          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 10       | 7.82          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 18       | 7.82          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 18       | 7.82          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 6        | 7.82          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 18       | 7.82          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 10       | 7.82          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 10       | 7.82          |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1  | 16       | 7.82          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 17       | 7.82          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 6        | 7.82          |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3  | 4        | 7.82          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 1        | 7.82          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H    | 10       | 7.82          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 11       | 7.82          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE1  | 14       | 7.82          |
| (1,3960) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HE2  | 14       | 7.82          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 16       | 7.82          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 16       | 7.82          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2  | 20       | 7.82          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3  | 20       | 7.82          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 13       | 7.82          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 13       | 7.82          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 13       | 7.82          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 17       | 7.82          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 13       | 7.82          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 13       | 7.82          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 12       | 7.82          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 12       | 7.82          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 12       | 7.82          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 6        | 7.82          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 2        | 7.82          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 4        | 7.82          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 15       | 7.82          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 15       | 7.82          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 15       | 7.82          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H    | 2        | 7.82          |
| (1,3631) | 1:A:17:GLY:HA3  | 1:A:26:CYS:H    | 14       | 7.82          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1  | 18       | 7.82          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2  | 18       | 7.82          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD1  | 19       | 7.82          |
| (1,3543) | 1:A:16:GLY:HA3  | 1:A:32:TYR:HD2  | 19       | 7.82          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2  | 12       | 7.82          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3  | 12       | 7.82          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2  | 6        | 7.82          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2  | 14       | 7.82          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3  | 14       | 7.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA   | 15       | 7.82          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 6        | 7.82          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 6        | 7.82          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 2        | 7.82          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 10       | 7.82          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3  | 11       | 7.82          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3  | 15       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 18       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 18       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 19       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 19       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 20       | 7.82          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 20       | 7.82          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 15       | 7.82          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 18       | 7.82          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 18       | 7.82          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 18       | 7.82          |
| (1,2687) | 1:A:11:TRP:HB3 | 1:A:20:CYS:H    | 7        | 7.82          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 18       | 7.82          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 19       | 7.82          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 6        | 7.82          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 6        | 7.82          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 9        | 7.82          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 11       | 7.82          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 8        | 7.82          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 8        | 7.82          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 2        | 7.82          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 2        | 7.82          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 15       | 7.82          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 15       | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 1        | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 1        | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 2        | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 2        | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 11       | 7.82          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 11       | 7.82          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 13       | 7.82          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 13       | 7.82          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 11       | 7.82          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 11       | 7.82          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 15       | 7.82          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 15       | 7.82          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H   | 18       | 7.82          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H   | 19       | 7.82          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 10       | 7.82          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 10       | 7.82          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 8        | 7.82          |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H   | 16       | 7.82          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 9        | 7.82          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 9        | 7.82          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 4        | 7.82          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 4        | 7.82          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 1        | 7.82          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 1        | 7.82          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 9        | 7.82          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD2  | 9        | 7.82          |
| (1,1402) | 1:A:5:GLY:H    | 1:A:9:PRO:HD3  | 9        | 7.82          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 15       | 7.82          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 17       | 7.82          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 17       | 7.82          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 9        | 7.82          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 11       | 7.82          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 7        | 7.81          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 7        | 7.81          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H    | 2        | 7.81          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2  | 3        | 7.81          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3  | 3        | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 7        | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 7        | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 13       | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 13       | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 18       | 7.81          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 18       | 7.81          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 16       | 7.81          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 16       | 7.81          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 8        | 7.81          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 8        | 7.81          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD1 | 10       | 7.81          |
| (1,570)  | 1:A:1:SER:HB2  | 1:A:23:TYR:HD2 | 10       | 7.81          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD1 | 10       | 7.81          |
| (1,570)  | 1:A:1:SER:HB3  | 1:A:23:TYR:HD2 | 10       | 7.81          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 18       | 7.81          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 10       | 7.81          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 5        | 7.81          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 9        | 7.81          |
| (1,4707) | 1:A:27:GLY:HA2 | 1:A:35:HIS:HE1 | 12       | 7.81          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 2        | 7.81          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 2        | 7.81          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 2        | 7.81          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 6        | 7.81          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG2 | 16       | 7.81          |
| (1,4617) | 1:A:26:CYS:H   | 1:A:31:LYS:HG3 | 16       | 7.81          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 7        | 7.81          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 7        | 7.81          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 7        | 7.81          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 7        | 7.81          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 7        | 7.81          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 7        | 7.81          |
| (1,4437) | 1:A:23:TYR:HE1 | 1:A:33:CYS:HA  | 14       | 7.81          |
| (1,4437) | 1:A:23:TYR:HE2 | 1:A:33:CYS:HA  | 14       | 7.81          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 5        | 7.81          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 5        | 7.81          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 5        | 7.81          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 5        | 7.81          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2 | 1        | 7.81          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3 | 1        | 7.81          |
| (1,4268) | 1:A:22:GLN:HG3 | 1:A:34:ALA:H   | 3        | 7.81          |
| (1,4235) | 1:A:22:GLN:HB3 | 1:A:30:PRO:HD2 | 15       | 7.81          |
| (1,4235) | 1:A:22:GLN:HB3 | 1:A:30:PRO:HD3 | 15       | 7.81          |
| (1,4171) | 1:A:22:GLN:HB2 | 1:A:26:CYS:H   | 10       | 7.81          |
| (1,4171) | 1:A:22:GLN:HB2 | 1:A:26:CYS:H   | 15       | 7.81          |
| (1,4130) | 1:A:22:GLN:H   | 1:A:35:HIS:H   | 14       | 7.81          |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H   | 5        | 7.81          |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H   | 6        | 7.81          |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD2 | 5        | 7.81          |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD3 | 5        | 7.81          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2 | 12       | 7.81          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB3 | 12       | 7.81          |
| (1,4044) | 1:A:21:SER:H   | 1:A:35:HIS:H   | 4        | 7.81          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1 | 3        | 7.81          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2 | 3        | 7.81          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 3        | 7.81          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 3        | 7.81          |
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 2        | 7.81          |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H   | 17       | 7.81          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3 | 8        | 7.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 8        | 7.81          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 8        | 7.81          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 16       | 7.81          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 16       | 7.81          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 20       | 7.81          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 20       | 7.81          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3  | 12       | 7.81          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 8        | 7.81          |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H    | 20       | 7.81          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 7        | 7.81          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 7        | 7.81          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2  | 16       | 7.81          |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3  | 16       | 7.81          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 1        | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 15       | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 15       | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 15       | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 19       | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 19       | 7.81          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 19       | 7.81          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2  | 1        | 7.81          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 4        | 7.81          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 1        | 7.81          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 7        | 7.81          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 7        | 7.81          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 20       | 7.81          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 20       | 7.81          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 2        | 7.81          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 2        | 7.81          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 3        | 7.81          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 3        | 7.81          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 5        | 7.81          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 5        | 7.81          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 15       | 7.81          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 15       | 7.81          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 19       | 7.81          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 19       | 7.81          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 19       | 7.81          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 19       | 7.81          |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 9        | 7.81          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 13       | 7.81          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 13       | 7.81          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 16       | 7.81          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 18       | 7.81          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 20       | 7.81          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 20       | 7.81          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 13       | 7.81          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 13       | 7.81          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 15       | 7.81          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 15       | 7.81          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 12       | 7.81          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA  | 1        | 7.81          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 19       | 7.81          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 19       | 7.81          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 8        | 7.8           |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 5        | 7.8           |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 5        | 7.8           |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 14       | 7.8           |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 14       | 7.8           |
| (1,753)  | 1:A:3:PRO:HA   | 1:A:11:TRP:HE1 | 18       | 7.8           |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 11       | 7.8           |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H   | 5        | 7.8           |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 18       | 7.8           |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 11       | 7.8           |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 11       | 7.8           |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 1        | 7.8           |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 1        | 7.8           |
| (1,4706) | 1:A:27:GLY:HA2 | 1:A:35:HIS:H   | 9        | 7.8           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 16       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 16       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 18       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 18       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 19       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 19       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE1 | 1:A:28:SER:H   | 20       | 7.8           |
| (1,4582) | 1:A:25:TYR:HE2 | 1:A:28:SER:H   | 20       | 7.8           |
| (1,4436) | 1:A:23:TYR:HE1 | 1:A:33:CYS:H   | 13       | 7.8           |
| (1,4436) | 1:A:23:TYR:HE2 | 1:A:33:CYS:H   | 13       | 7.8           |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H   | 19       | 7.8           |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H   | 19       | 7.8           |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2 | 9        | 7.8           |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2 | 9        | 7.8           |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3 | 9        | 7.8           |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3 | 9        | 7.8           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 13       | 7.8           |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 13       | 7.8           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 1        | 7.8           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 1        | 7.8           |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 1        | 7.8           |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 1        | 7.8           |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 3        | 7.8           |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 5        | 7.8           |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 13       | 7.8           |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 13       | 7.8           |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 3        | 7.8           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 10       | 7.8           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 10       | 7.8           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 13       | 7.8           |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 13       | 7.8           |
| (1,4205) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HB3 | 11       | 7.8           |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 7        | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 18       | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 18       | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 19       | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 19       | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 20       | 7.8           |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 20       | 7.8           |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 3        | 7.8           |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 12       | 7.8           |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 4        | 7.8           |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 4        | 7.8           |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 15       | 7.8           |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 15       | 7.8           |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 8        | 7.8           |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 8        | 7.8           |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 8        | 7.8           |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 13       | 7.8           |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 13       | 7.8           |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 13       | 7.8           |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 17       | 7.8           |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 17       | 7.8           |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 17       | 7.8           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 7        | 7.8           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 7        | 7.8           |
| (1,3726) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HE1 | 12       | 7.8           |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 10       | 7.8           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 19       | 7.8           |
| (1,3700) | 1:A:18:LEU:HB2 | 1:A:34:ALA:H   | 7        | 7.8           |
| (1,3700) | 1:A:18:LEU:HB2 | 1:A:34:ALA:H   | 13       | 7.8           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB1 | 12       | 7.8           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 12       | 7.8           |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 12       | 7.8           |
| (1,3495) | 1:A:16:GLY:HA2 | 1:A:21:SER:H   | 6        | 7.8           |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB2 | 12       | 7.8           |
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3 | 12       | 7.8           |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 1        | 7.8           |
| (1,3307) | 1:A:15:ARG:HB2 | 1:A:27:GLY:HA2 | 16       | 7.8           |
| (1,3089) | 1:A:13:GLY:H   | 1:A:17:GLY:H   | 9        | 7.8           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 9        | 7.8           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 9        | 7.8           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 20       | 7.8           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 20       | 7.8           |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 9        | 7.8           |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 11       | 7.8           |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 18       | 7.8           |
| (1,2917) | 1:A:11:TRP:HZ3 | 1:A:26:CYS:H   | 19       | 7.8           |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB2 | 9        | 7.8           |
| (1,2794) | 1:A:11:TRP:HE3 | 1:A:20:CYS:HB3 | 9        | 7.8           |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 3        | 7.8           |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 6        | 7.8           |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB2 | 17       | 7.8           |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB2 | 17       | 7.8           |
| (1,2433) | 1:A:9:PRO:HD2  | 1:A:18:LEU:HB3 | 17       | 7.8           |
| (1,2433) | 1:A:9:PRO:HD3  | 1:A:18:LEU:HB3 | 17       | 7.8           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 9        | 7.8           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 9        | 7.8           |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 4        | 7.8           |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 4        | 7.8           |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 6        | 7.8           |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 6        | 7.8           |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB2 | 17       | 7.8           |
| (1,2049) | 1:A:8:GLY:H    | 1:A:22:GLN:HB3 | 17       | 7.8           |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 2        | 7.8           |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 2        | 7.8           |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 18       | 7.8           |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 18       | 7.8           |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 18       | 7.8           |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 18       | 7.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 16       | 7.8           |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 16       | 7.8           |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 7        | 7.8           |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 16       | 7.8           |
| (1,1932) | 1:A:7:CYS:H    | 1:A:15:ARG:HE   | 7        | 7.8           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 5        | 7.8           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 5        | 7.8           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 5        | 7.8           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 7        | 7.8           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 18       | 7.8           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 19       | 7.8           |
| (1,1756) | 1:A:6:GLN:HG3  | 1:A:20:CYS:H    | 20       | 7.8           |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1  | 8        | 7.8           |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2  | 8        | 7.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 10       | 7.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 10       | 7.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 20       | 7.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 20       | 7.8           |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 5        | 7.8           |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 5        | 7.8           |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 12       | 7.8           |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 12       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2   | 7        | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3   | 7        | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2   | 11       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3   | 11       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2   | 16       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3   | 16       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2   | 19       | 7.8           |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3   | 19       | 7.8           |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 13       | 7.8           |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD1  | 10       | 7.8           |
| (1,1433) | 1:A:5:GLY:H    | 1:A:23:TYR:HD2  | 10       | 7.8           |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA   | 9        | 7.8           |
| (1,1183) | 1:A:4:ASN:HB3  | 1:A:8:GLY:H     | 13       | 7.8           |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H    | 13       | 7.8           |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 8        | 7.8           |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 9        | 7.8           |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 6        | 7.79          |
| (1,771)  | 1:A:3:PRO:HB2  | 1:A:7:CYS:H     | 10       | 7.79          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 9        | 7.79          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 9        | 7.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 8        | 7.79          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 8        | 7.79          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 8        | 7.79          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 8        | 7.79          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 20       | 7.79          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 20       | 7.79          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 6        | 7.79          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2 | 5        | 7.79          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3 | 5        | 7.79          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 14       | 7.79          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 14       | 7.79          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 14       | 7.79          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2 | 1        | 7.79          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 13       | 7.79          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 20       | 7.79          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 20       | 7.79          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 20       | 7.79          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 2        | 7.79          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 2        | 7.79          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 12       | 7.79          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 12       | 7.79          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H   | 17       | 7.79          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H   | 17       | 7.79          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 6        | 7.79          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 6        | 7.79          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 6        | 7.79          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 6        | 7.79          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 6        | 7.79          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 6        | 7.79          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 2        | 7.79          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 2        | 7.79          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 2        | 7.79          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 2        | 7.79          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 19       | 7.79          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 12       | 7.79          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 12       | 7.79          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 17       | 7.79          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 17       | 7.79          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 3        | 7.79          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H   | 20       | 7.79          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 8        | 7.79          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 8        | 7.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 1        | 7.79          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 8        | 7.79          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 18       | 7.79          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 6        | 7.79          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 1        | 7.79          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 1        | 7.79          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 11       | 7.79          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 11       | 7.79          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 17       | 7.79          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 1        | 7.79          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 14       | 7.79          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 14       | 7.79          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 6        | 7.79          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 6        | 7.79          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 9        | 7.79          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 9        | 7.79          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 9        | 7.79          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 16       | 7.79          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 16       | 7.79          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 16       | 7.79          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 4        | 7.79          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 4        | 7.79          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H   | 20       | 7.79          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2 | 12       | 7.79          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 14       | 7.79          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2 | 9        | 7.79          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3 | 9        | 7.79          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 16       | 7.79          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H   | 10       | 7.79          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 14       | 7.79          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 14       | 7.79          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 5        | 7.79          |
| (1,3294) | 1:A:15:ARG:HB2  | 1:A:21:SER:HB3 | 11       | 7.79          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 14       | 7.79          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 3        | 7.79          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 3        | 7.79          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA  | 4        | 7.79          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG2 | 16       | 7.79          |
| (1,2783) | 1:A:11:TRP:HE3  | 1:A:15:ARG:HG3 | 16       | 7.79          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2 | 13       | 7.79          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3 | 13       | 7.79          |
| (1,2645) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HB2 | 7        | 7.79          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2 | 8        | 7.79          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2 | 20       | 7.79          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 19       | 7.79          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 19       | 7.79          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 7        | 7.79          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 7        | 7.79          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 6        | 7.79          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 4        | 7.79          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 4        | 7.79          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2 | 13       | 7.79          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3 | 13       | 7.79          |
| (1,2046) | 1:A:8:GLY:H    | 1:A:22:GLN:H   | 17       | 7.79          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 4        | 7.79          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 4        | 7.79          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H   | 12       | 7.79          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H   | 12       | 7.79          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 9        | 7.79          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 9        | 7.79          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 9        | 7.79          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 9        | 7.79          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 11       | 7.79          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 11       | 7.79          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 5        | 7.79          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 7        | 7.79          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 19       | 7.79          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 14       | 7.79          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 14       | 7.79          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 9        | 7.79          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 9        | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 8        | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 8        | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 12       | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 12       | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 18       | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 18       | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 20       | 7.79          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 20       | 7.79          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 8        | 7.79          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 1        | 7.79          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 14       | 7.79          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 14       | 7.79          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 1        | 7.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1219) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HE2 | 1        | 7.79          |
| (1,1126) | 1:A:4:ASN:HB2   | 1:A:11:TRP:H   | 14       | 7.79          |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 15       | 7.79          |
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 8        | 7.78          |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 8        | 7.78          |
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 10       | 7.78          |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 10       | 7.78          |
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 15       | 7.78          |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 15       | 7.78          |
| (1,771)  | 1:A:3:PRO:HB2   | 1:A:7:CYS:H    | 5        | 7.78          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 4        | 7.78          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 9        | 7.78          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 9        | 7.78          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H   | 9        | 7.78          |
| (1,649)  | 1:A:2:GLY:H     | 1:A:27:GLY:H   | 10       | 7.78          |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 6        | 7.78          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 6        | 7.78          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 2        | 7.78          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2 | 4        | 7.78          |
| (1,4747) | 1:A:28:SER:HB2  | 1:A:35:HIS:HD2 | 12       | 7.78          |
| (1,4582) | 1:A:25:TYR:HE1  | 1:A:28:SER:H   | 10       | 7.78          |
| (1,4582) | 1:A:25:TYR:HE2  | 1:A:28:SER:H   | 10       | 7.78          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 13       | 7.78          |
| (1,4451) | 1:A:24:GLY:H    | 1:A:31:LYS:HB2 | 15       | 7.78          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 6        | 7.78          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 11       | 7.78          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 20       | 7.78          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 20       | 7.78          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 14       | 7.78          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 14       | 7.78          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA  | 17       | 7.78          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 12       | 7.78          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 15       | 7.78          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 15       | 7.78          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 10       | 7.78          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 10       | 7.78          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 16       | 7.78          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 16       | 7.78          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 10       | 7.78          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 12       | 7.78          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 2        | 7.78          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 2        | 7.78          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 2        | 7.78          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 16       | 7.78          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 19       | 7.78          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 19       | 7.78          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 19       | 7.78          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 9        | 7.78          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 6        | 7.78          |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 5        | 7.78          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 12       | 7.78          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 12       | 7.78          |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3  | 8        | 7.78          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA   | 14       | 7.78          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 1        | 7.78          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 1        | 7.78          |
| (1,3152) | 1:A:13:GLY:HA3  | 1:A:21:SER:HG   | 6        | 7.78          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 18       | 7.78          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 18       | 7.78          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H    | 7        | 7.78          |
| (1,2917) | 1:A:11:TRP:HZ3  | 1:A:26:CYS:H    | 16       | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD11 | 7        | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD12 | 7        | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD13 | 7        | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD11 | 20       | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD12 | 20       | 7.78          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD13 | 20       | 7.78          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2  | 11       | 7.78          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3  | 11       | 7.78          |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H    | 2        | 7.78          |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H    | 10       | 7.78          |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2  | 9        | 7.78          |
| (1,2438) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HG3  | 17       | 7.78          |
| (1,2438) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HG3  | 17       | 7.78          |
| (1,2436) | 1:A:9:PRO:HD2   | 1:A:22:GLN:H    | 18       | 7.78          |
| (1,2436) | 1:A:9:PRO:HD3   | 1:A:22:GLN:H    | 18       | 7.78          |
| (1,2436) | 1:A:9:PRO:HD2   | 1:A:22:GLN:H    | 19       | 7.78          |
| (1,2436) | 1:A:9:PRO:HD3   | 1:A:22:GLN:H    | 19       | 7.78          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3  | 12       | 7.78          |
| (1,2013) | 1:A:7:CYS:HB2   | 1:A:32:TYR:H    | 13       | 7.78          |
| (1,2013) | 1:A:7:CYS:HB3   | 1:A:32:TYR:H    | 13       | 7.78          |
| (1,1872) | 1:A:6:GLN:HE22  | 1:A:12:GLY:HA3  | 12       | 7.78          |
| (1,1798) | 1:A:6:GLN:HE21  | 1:A:10:GLY:H    | 6        | 7.78          |
| (1,1542) | 1:A:6:GLN:H     | 1:A:32:TYR:HE1  | 18       | 7.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 18       | 7.78          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 18       | 7.78          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 18       | 7.78          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 9        | 7.78          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 9        | 7.78          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 15       | 7.78          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 20       | 7.78          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 3        | 7.78          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 2        | 7.78          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 14       | 7.78          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 18       | 7.77          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 20       | 7.77          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 16       | 7.77          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 16       | 7.77          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 6        | 7.77          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 10       | 7.77          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 15       | 7.77          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 15       | 7.77          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 16       | 7.77          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 16       | 7.77          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 16       | 7.77          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 16       | 7.77          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 6        | 7.77          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 6        | 7.77          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 11       | 7.77          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 11       | 7.77          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 17       | 7.77          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 17       | 7.77          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 19       | 7.77          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 5        | 7.77          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 17       | 7.77          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 5        | 7.77          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 5        | 7.77          |
| (1,4575) | 1:A:25:TYR:HD1 | 1:A:33:CYS:H   | 16       | 7.77          |
| (1,4575) | 1:A:25:TYR:HD2 | 1:A:33:CYS:H   | 16       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1 | 11       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2 | 11       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3 | 11       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1 | 11       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB2 | 11       | 7.77          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB3 | 11       | 7.77          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 3        | 7.77          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 3        | 7.77          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 3        | 7.77          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 3        | 7.77          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2  | 16       | 7.77          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2  | 16       | 7.77          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3  | 16       | 7.77          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3  | 16       | 7.77          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 7        | 7.77          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 7        | 7.77          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2  | 16       | 7.77          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3  | 16       | 7.77          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 18       | 7.77          |
| (1,4256) | 1:A:22:GLN:HG3  | 1:A:28:SER:H    | 1        | 7.77          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 4        | 7.77          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 14       | 7.77          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2  | 3        | 7.77          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3  | 3        | 7.77          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2  | 9        | 7.77          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3  | 9        | 7.77          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA   | 6        | 7.77          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 3        | 7.77          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 17       | 7.77          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 17       | 7.77          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 2        | 7.77          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 2        | 7.77          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 1        | 7.77          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 1        | 7.77          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 1        | 7.77          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 19       | 7.77          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 19       | 7.77          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 19       | 7.77          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 20       | 7.77          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 20       | 7.77          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 20       | 7.77          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 5        | 7.77          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 5        | 7.77          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 5        | 7.77          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 13       | 7.77          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 13       | 7.77          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 18       | 7.77          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 19       | 7.77          |
| (1,3495) | 1:A:16:GLY:HA2  | 1:A:21:SER:H    | 17       | 7.77          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3404) | 1:A:15:ARG:HD2 | 1:A:24:GLY:HA2  | 1        | 7.77          |
| (1,3404) | 1:A:15:ARG:HD3 | 1:A:24:GLY:HA2  | 1        | 7.77          |
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2  | 6        | 7.77          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 17       | 7.77          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 15       | 7.77          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA   | 13       | 7.77          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG   | 5        | 7.77          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 5        | 7.77          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 10       | 7.77          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 9        | 7.77          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 9        | 7.77          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 9        | 7.77          |
| (1,2445) | 1:A:9:PRO:HD2  | 1:A:26:CYS:HB3  | 17       | 7.77          |
| (1,2445) | 1:A:9:PRO:HD3  | 1:A:26:CYS:HB3  | 17       | 7.77          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 16       | 7.77          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 16       | 7.77          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 3        | 7.77          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 3        | 7.77          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 7        | 7.77          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 7        | 7.77          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 8        | 7.77          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 8        | 7.77          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 3        | 7.77          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 3        | 7.77          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 3        | 7.77          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 3        | 7.77          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG2   | 17       | 7.77          |
| (1,1796) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HG3   | 17       | 7.77          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 8        | 7.77          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 12       | 7.77          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 18       | 7.77          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 19       | 7.77          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 19       | 7.77          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 19       | 7.77          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 16       | 7.77          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 16       | 7.77          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 19       | 7.77          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 19       | 7.77          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 1        | 7.77          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 1        | 7.77          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 10       | 7.77          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 10       | 7.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB2 | 13       | 7.77          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB3 | 13       | 7.77          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1 | 17       | 7.77          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2 | 17       | 7.77          |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 3        | 7.77          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD2 | 15       | 7.77          |
| (1,1065) | 1:A:4:ASN:H     | 1:A:15:ARG:HD3 | 15       | 7.77          |
| (1,979)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:HB3 | 19       | 7.76          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 6        | 7.76          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 6        | 7.76          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 10       | 7.76          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 10       | 7.76          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 6        | 7.76          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 6        | 7.76          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 16       | 7.76          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 16       | 7.76          |
| (1,632)  | 1:A:2:GLY:H     | 1:A:21:SER:HG  | 9        | 7.76          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 2        | 7.76          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 2        | 7.76          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 14       | 7.76          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 12       | 7.76          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 11       | 7.76          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 11       | 7.76          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 6        | 7.76          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 6        | 7.76          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 1        | 7.76          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 1        | 7.76          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 1        | 7.76          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 1        | 7.76          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 14       | 7.76          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 14       | 7.76          |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2 | 1        | 7.76          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 11       | 7.76          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 11       | 7.76          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 15       | 7.76          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 18       | 7.76          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 8        | 7.76          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 8        | 7.76          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 4        | 7.76          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 14       | 7.76          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 2        | 7.76          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 15       | 7.76          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 19       | 7.76          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H    | 17       | 7.76          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3  | 1        | 7.76          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 9        | 7.76          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA   | 10       | 7.76          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 15       | 7.76          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1  | 5        | 7.76          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2  | 5        | 7.76          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 18       | 7.76          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 18       | 7.76          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 18       | 7.76          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 10       | 7.76          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 10       | 7.76          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 10       | 7.76          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 6        | 7.76          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 6        | 7.76          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 6        | 7.76          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 8        | 7.76          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 8        | 7.76          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 7        | 7.76          |
| (1,3719) | 1:A:18:LEU:HB3  | 1:A:30:PRO:HD2  | 14       | 7.76          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 18       | 7.76          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H    | 18       | 7.76          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1  | 13       | 7.76          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2  | 13       | 7.76          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 19       | 7.76          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 19       | 7.76          |
| (1,2661) | 1:A:11:TRP:HB2  | 1:A:27:GLY:H    | 17       | 7.76          |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 10       | 7.76          |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 10       | 7.76          |
| (1,2437) | 1:A:9:PRO:HD2   | 1:A:22:GLN:HB3  | 20       | 7.76          |
| (1,2437) | 1:A:9:PRO:HD3   | 1:A:22:GLN:HB3  | 20       | 7.76          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3  | 6        | 7.76          |
| (1,2116) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HG3  | 13       | 7.76          |
| (1,2000) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HE21 | 20       | 7.76          |
| (1,2000) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HE21 | 20       | 7.76          |
| (1,2000) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HE22 | 20       | 7.76          |
| (1,2000) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HE22 | 20       | 7.76          |
| (1,1951) | 1:A:7:CYS:H     | 1:A:22:GLN:HE21 | 2        | 7.76          |
| (1,1951) | 1:A:7:CYS:H     | 1:A:22:GLN:HE22 | 2        | 7.76          |
| (1,1798) | 1:A:6:GLN:HE21  | 1:A:10:GLY:H    | 5        | 7.76          |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE1  | 13       | 7.76          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 13       | 7.76          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 15       | 7.76          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 15       | 7.76          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 13       | 7.76          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 13       | 7.76          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 20       | 7.76          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 19       | 7.76          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 19       | 7.76          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 16       | 7.76          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 16       | 7.76          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 11       | 7.76          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 11       | 7.76          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 20       | 7.76          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 15       | 7.76          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 20       | 7.76          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 20       | 7.76          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 16       | 7.76          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 18       | 7.76          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H   | 20       | 7.76          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H    | 6        | 7.76          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 16       | 7.75          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 12       | 7.75          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 15       | 7.75          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 3        | 7.75          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2  | 5        | 7.75          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3  | 5        | 7.75          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 11       | 7.75          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 11       | 7.75          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 12       | 7.75          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22 | 17       | 7.75          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 9        | 7.75          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 9        | 7.75          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 9        | 7.75          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 9        | 7.75          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 9        | 7.75          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 9        | 7.75          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 9        | 7.75          |
| (1,4549) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HB2 | 15       | 7.75          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1 | 19       | 7.75          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2 | 19       | 7.75          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3 | 19       | 7.75          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1 | 19       | 7.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 19       | 7.75          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 19       | 7.75          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 12       | 7.75          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 12       | 7.75          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 20       | 7.75          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 2        | 7.75          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 7        | 7.75          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 17       | 7.75          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 18       | 7.75          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 13       | 7.75          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 7        | 7.75          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 9        | 7.75          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 8        | 7.75          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 20       | 7.75          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 17       | 7.75          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 3        | 7.75          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 2        | 7.75          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 9        | 7.75          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 9        | 7.75          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 9        | 7.75          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 14       | 7.75          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 4        | 7.75          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 4        | 7.75          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 2        | 7.75          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 2        | 7.75          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 10       | 7.75          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 10       | 7.75          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 7        | 7.75          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 7        | 7.75          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 7        | 7.75          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 4        | 7.75          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 4        | 7.75          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 4        | 7.75          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 3        | 7.75          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 3        | 7.75          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 5        | 7.75          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 13       | 7.75          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 13       | 7.75          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 5        | 7.75          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 5        | 7.75          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 18       | 7.75          |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 19       | 7.75          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2 | 17       | 7.75          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H   | 6        | 7.75          |
| (1,3294) | 1:A:15:ARG:HB2 | 1:A:21:SER:HB3 | 1        | 7.75          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 8        | 7.75          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 8        | 7.75          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2 | 9        | 7.75          |
| (1,2645) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HB2 | 17       | 7.75          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 5        | 7.75          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 12       | 7.75          |
| (1,2597) | 1:A:11:TRP:H   | 1:A:26:CYS:HA  | 17       | 7.75          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 20       | 7.75          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 20       | 7.75          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H   | 9        | 7.75          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H   | 9        | 7.75          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 1        | 7.75          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 1        | 7.75          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 13       | 7.75          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 13       | 7.75          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 8        | 7.75          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 15       | 7.75          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 13       | 7.75          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 13       | 7.75          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE1 | 1        | 7.75          |
| (1,1683) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HE2 | 1        | 7.75          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 15       | 7.75          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 15       | 7.75          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 17       | 7.75          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 17       | 7.75          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 7        | 7.75          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 7        | 7.75          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 7        | 7.75          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 18       | 7.75          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 18       | 7.75          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG2  | 9        | 7.75          |
| (1,1505) | 1:A:6:GLN:H    | 1:A:9:PRO:HG3  | 9        | 7.75          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 17       | 7.75          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 17       | 7.75          |
| (1,1133) | 1:A:4:ASN:HB2  | 1:A:12:GLY:H   | 1        | 7.75          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 1        | 7.75          |
| (1,979)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:HB3 | 7        | 7.74          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG2 | 11       | 7.74          |
| (1,960)  | 1:A:3:PRO:HD2  | 1:A:15:ARG:HG3 | 11       | 7.74          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 12       | 7.74          |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 12       | 7.74          |
| (1,903)  | 1:A:3:PRO:HG2   | 1:A:12:GLY:H   | 17       | 7.74          |
| (1,903)  | 1:A:3:PRO:HG3   | 1:A:12:GLY:H   | 17       | 7.74          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 17       | 7.74          |
| (1,753)  | 1:A:3:PRO:HA    | 1:A:11:TRP:HE1 | 9        | 7.74          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 1        | 7.74          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 1        | 7.74          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 4        | 7.74          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 9        | 7.74          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 8        | 7.74          |
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 11       | 7.74          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2 | 5        | 7.74          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 7        | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 14       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 14       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 14       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 14       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 19       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 19       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 19       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 19       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 20       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 20       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 20       | 7.74          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 20       | 7.74          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG2 | 14       | 7.74          |
| (1,4424) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HG3 | 14       | 7.74          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG2 | 14       | 7.74          |
| (1,4424) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HG3 | 14       | 7.74          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 12       | 7.74          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 12       | 7.74          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 12       | 7.74          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 12       | 7.74          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 13       | 7.74          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 13       | 7.74          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 16       | 7.74          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 16       | 7.74          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H   | 4        | 7.74          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 3        | 7.74          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 6        | 7.74          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 2        | 7.74          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H    | 3        | 7.74          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2  | 6        | 7.74          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3  | 6        | 7.74          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H    | 4        | 7.74          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2  | 14       | 7.74          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3  | 14       | 7.74          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2  | 17       | 7.74          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3  | 17       | 7.74          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 18       | 7.74          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H    | 19       | 7.74          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 15       | 7.74          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 8        | 7.74          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 8        | 7.74          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 8        | 7.74          |
| (1,3797) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HE1  | 12       | 7.74          |
| (1,3797) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HE1  | 12       | 7.74          |
| (1,3797) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HE1  | 12       | 7.74          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 12       | 7.74          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 8        | 7.74          |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 16       | 7.74          |
| (1,3517) | 1:A:16:GLY:HA2  | 1:A:32:TYR:H    | 5        | 7.74          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 6        | 7.74          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 6        | 7.74          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 16       | 7.74          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 16       | 7.74          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H    | 1        | 7.74          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H    | 1        | 7.74          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 8        | 7.74          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 8        | 7.74          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA   | 16       | 7.74          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 6        | 7.74          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 6        | 7.74          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1  | 16       | 7.74          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2  | 16       | 7.74          |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3  | 9        | 7.74          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1  | 12       | 7.74          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2  | 12       | 7.74          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 5        | 7.74          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H    | 6        | 7.74          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA   | 3        | 7.74          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD11 | 11       | 7.74          |
| (1,2735) | 1:A:11:TRP:HD1  | 1:A:18:LEU:HD12 | 11       | 7.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 11       | 7.74          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 20       | 7.74          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 8        | 7.74          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 8        | 7.74          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 15       | 7.74          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 15       | 7.74          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 9        | 7.74          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 9        | 7.74          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 8        | 7.74          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 5        | 7.74          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 5        | 7.74          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 14       | 7.74          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 14       | 7.74          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 14       | 7.74          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 14       | 7.74          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 12       | 7.74          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 10       | 7.74          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 10       | 7.74          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 10       | 7.74          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 10       | 7.74          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 13       | 7.74          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 16       | 7.74          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 15       | 7.74          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 15       | 7.74          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 13       | 7.74          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 8        | 7.74          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 8        | 7.74          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 4        | 7.74          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 4        | 7.74          |
| (1,1095) | 1:A:4:ASN:H    | 1:A:27:GLY:H    | 19       | 7.74          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3  | 11       | 7.74          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 13       | 7.73          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 13       | 7.73          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 4        | 7.73          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2  | 14       | 7.73          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA   | 14       | 7.73          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H    | 2        | 7.73          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 3        | 7.73          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3  | 14       | 7.73          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3  | 14       | 7.73          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H    | 2        | 7.73          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H    | 2        | 7.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 15       | 7.73          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 20       | 7.73          |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1 | 3        | 7.73          |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1 | 3        | 7.73          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 9        | 7.73          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 9        | 7.73          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 9        | 7.73          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 17       | 7.73          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 17       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 11       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 11       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 11       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 11       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 18       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 18       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 18       | 7.73          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 18       | 7.73          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 7        | 7.73          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 7        | 7.73          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 15       | 7.73          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 7        | 7.73          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 6        | 7.73          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 6        | 7.73          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 8        | 7.73          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 16       | 7.73          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 10       | 7.73          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 10       | 7.73          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 9        | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 12       | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 12       | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 13       | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 13       | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 15       | 7.73          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 15       | 7.73          |
| (1,3966) | 1:A:20:CYS:HB2  | 1:A:29:GLY:H   | 16       | 7.73          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 16       | 7.73          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 16       | 7.73          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 16       | 7.73          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 1        | 7.73          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 9        | 7.73          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 2        | 7.73          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 2        | 7.73          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1 | 10       | 7.73          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2 | 10       | 7.73          |
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 7        | 7.73          |
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 16       | 7.73          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA2 | 13       | 7.73          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA2 | 13       | 7.73          |
| (1,3382) | 1:A:15:ARG:HG2 | 1:A:29:GLY:HA3 | 13       | 7.73          |
| (1,3382) | 1:A:15:ARG:HG3 | 1:A:29:GLY:HA3 | 13       | 7.73          |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H   | 14       | 7.73          |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H   | 14       | 7.73          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 3        | 7.73          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 20       | 7.73          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2 | 5        | 7.73          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3 | 5        | 7.73          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H   | 12       | 7.73          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 5        | 7.73          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 5        | 7.73          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 13       | 7.73          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 13       | 7.73          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 8        | 7.73          |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA  | 2        | 7.73          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 7        | 7.73          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE1 | 17       | 7.73          |
| (1,2441) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HE2 | 17       | 7.73          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE1 | 17       | 7.73          |
| (1,2441) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HE2 | 17       | 7.73          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2 | 18       | 7.73          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 8        | 7.73          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 8        | 7.73          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 8        | 7.73          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 8        | 7.73          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 16       | 7.73          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 20       | 7.73          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 2        | 7.73          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 16       | 7.73          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 16       | 7.73          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 20       | 7.73          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 20       | 7.73          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD1 | 1        | 7.73          |
| (1,1682) | 1:A:6:GLN:HB3  | 1:A:32:TYR:HD2 | 1        | 7.73          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 2        | 7.73          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 2        | 7.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB2 | 7        | 7.73          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB3 | 7        | 7.73          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB2 | 8        | 7.73          |
| (1,1540) | 1:A:6:GLN:H     | 1:A:32:TYR:HB3 | 8        | 7.73          |
| (1,1487) | 1:A:5:GLY:HA3   | 1:A:22:GLN:H   | 18       | 7.73          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 18       | 7.73          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 18       | 7.73          |
| (1,1095) | 1:A:4:ASN:H     | 1:A:27:GLY:H   | 7        | 7.73          |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG2 | 14       | 7.73          |
| (1,1009) | 1:A:3:PRO:HD3   | 1:A:15:ARG:HG3 | 14       | 7.73          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 5        | 7.72          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 1        | 7.72          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 17       | 7.72          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 12       | 7.72          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 12       | 7.72          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 19       | 7.72          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 19       | 7.72          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 1        | 7.72          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 6        | 7.72          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 6        | 7.72          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 10       | 7.72          |
| (1,4537) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HA  | 2        | 7.72          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 17       | 7.72          |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1 | 11       | 7.72          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 9        | 7.72          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 17       | 7.72          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 5        | 7.72          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 16       | 7.72          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 16       | 7.72          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 16       | 7.72          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 14       | 7.72          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 14       | 7.72          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 2        | 7.72          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 4        | 7.72          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 5        | 7.72          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 10       | 7.72          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2 | 14       | 7.72          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 13       | 7.72          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 11       | 7.72          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 20       | 7.72          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE1 | 14       | 7.72          |
| (1,3893) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HE2 | 14       | 7.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3840) | 1:A:19:CYS:H   | 1:A:31:LYS:HG3 | 5        | 7.72          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 1        | 7.72          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 1        | 7.72          |
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 9        | 7.72          |
| (1,3416) | 1:A:15:ARG:HD2 | 1:A:33:CYS:H   | 9        | 7.72          |
| (1,3416) | 1:A:15:ARG:HD3 | 1:A:33:CYS:H   | 9        | 7.72          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H   | 1        | 7.72          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H   | 1        | 7.72          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 18       | 7.72          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3 | 14       | 7.72          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD1 | 10       | 7.72          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD2 | 10       | 7.72          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 12       | 7.72          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 20       | 7.72          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 20       | 7.72          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 11       | 7.72          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 11       | 7.72          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 11       | 7.72          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1 | 8        | 7.72          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2 | 8        | 7.72          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1 | 9        | 7.72          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2 | 9        | 7.72          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1 | 3        | 7.72          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2 | 3        | 7.72          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1 | 13       | 7.72          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2 | 13       | 7.72          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 12       | 7.72          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 10       | 7.72          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 10       | 7.72          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 8        | 7.72          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 18       | 7.72          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 19       | 7.72          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 12       | 7.72          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 12       | 7.72          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 13       | 7.72          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 13       | 7.72          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 7        | 7.72          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 6        | 7.72          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 6        | 7.72          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 7        | 7.72          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 7        | 7.72          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 18       | 7.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 18       | 7.72          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2 | 19       | 7.72          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2 | 19       | 7.72          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 18       | 7.72          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 1        | 7.72          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 14       | 7.72          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 19       | 7.72          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 16       | 7.72          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 16       | 7.72          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 18       | 7.72          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 18       | 7.72          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 19       | 7.72          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 19       | 7.72          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H   | 1        | 7.72          |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2 | 11       | 7.72          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 2        | 7.72          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 2        | 7.72          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 6        | 7.72          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 4        | 7.72          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H   | 11       | 7.71          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H   | 11       | 7.71          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 20       | 7.71          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2 | 9        | 7.71          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3 | 9        | 7.71          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 4        | 7.71          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 14       | 7.71          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 7        | 7.71          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 7        | 7.71          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 12       | 7.71          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 12       | 7.71          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 4        | 7.71          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 18       | 7.71          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 2        | 7.71          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 4        | 7.71          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 13       | 7.71          |
| (1,4736) | 1:A:28:SER:H   | 1:A:34:ALA:HA  | 15       | 7.71          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 10       | 7.71          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 15       | 7.71          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 15       | 7.71          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 15       | 7.71          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 15       | 7.71          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 16       | 7.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 16       | 7.71          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 7        | 7.71          |
| (1,4368) | 1:A:23:TYR:HA   | 1:A:31:LYS:HB3 | 17       | 7.71          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 16       | 7.71          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 16       | 7.71          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 15       | 7.71          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 17       | 7.71          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 4        | 7.71          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 15       | 7.71          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 11       | 7.71          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 14       | 7.71          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD2 | 8        | 7.71          |
| (1,4083) | 1:A:21:SER:HG   | 1:A:30:PRO:HD3 | 8        | 7.71          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 8        | 7.71          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 8        | 7.71          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H   | 18       | 7.71          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 19       | 7.71          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 19       | 7.71          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 2        | 7.71          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE1 | 14       | 7.71          |
| (1,3920) | 1:A:20:CYS:H    | 1:A:23:TYR:HE2 | 14       | 7.71          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 10       | 7.71          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 12       | 7.71          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 4        | 7.71          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 4        | 7.71          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 13       | 7.71          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 13       | 7.71          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 13       | 7.71          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 7        | 7.71          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 7        | 7.71          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 7        | 7.71          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 11       | 7.71          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 11       | 7.71          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 11       | 7.71          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 3        | 7.71          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 3        | 7.71          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 3        | 7.71          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 12       | 7.71          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 12       | 7.71          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 8        | 7.71          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2 | 20       | 7.71          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 8        | 7.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB2 | 8        | 7.71          |
| (1,3641) | 1:A:17:GLY:HA3 | 1:A:34:ALA:HB3 | 8        | 7.71          |
| (1,3593) | 1:A:17:GLY:HA2 | 1:A:20:CYS:HB2 | 16       | 7.71          |
| (1,3491) | 1:A:16:GLY:H   | 1:A:35:HIS:HD2 | 13       | 7.71          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 19       | 7.71          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 14       | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 1        | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 1        | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 18       | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 18       | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 19       | 7.71          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 19       | 7.71          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H   | 3        | 7.71          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 1        | 7.71          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD1 | 17       | 7.71          |
| (1,3114) | 1:A:13:GLY:H   | 1:A:25:TYR:HD2 | 17       | 7.71          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 16       | 7.71          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 16       | 7.71          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 18       | 7.71          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 18       | 7.71          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 19       | 7.71          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 19       | 7.71          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 17       | 7.71          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 2        | 7.71          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 5        | 7.71          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 6        | 7.71          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 10       | 7.71          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3 | 4        | 7.71          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 10       | 7.71          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 10       | 7.71          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 10       | 7.71          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 10       | 7.71          |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA  | 19       | 7.71          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 9        | 7.71          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 1        | 7.71          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 1        | 7.71          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 11       | 7.71          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 11       | 7.71          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 16       | 7.71          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 12       | 7.71          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 12       | 7.71          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 19       | 7.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB3  | 19       | 7.71          |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE1 | 11       | 7.71          |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE2 | 11       | 7.71          |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE1 | 17       | 7.71          |
| (1,1683) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HE2 | 17       | 7.71          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD1 | 11       | 7.71          |
| (1,1682) | 1:A:6:GLN:HB3   | 1:A:32:TYR:HD2 | 11       | 7.71          |
| (1,1645) | 1:A:6:GLN:HB3   | 1:A:21:SER:HB2 | 9        | 7.71          |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 12       | 7.71          |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 19       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 13       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 13       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 16       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 16       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 19       | 7.71          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 19       | 7.71          |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 5        | 7.71          |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 10       | 7.71          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 14       | 7.71          |
| (1,1000) | 1:A:3:PRO:HD3   | 1:A:8:GLY:H    | 5        | 7.71          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 1        | 7.7           |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 17       | 7.7           |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 16       | 7.7           |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2 | 11       | 7.7           |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3 | 11       | 7.7           |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 15       | 7.7           |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 9        | 7.7           |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 7        | 7.7           |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 7        | 7.7           |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 15       | 7.7           |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 15       | 7.7           |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 15       | 7.7           |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 15       | 7.7           |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 8        | 7.7           |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 8        | 7.7           |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 8        | 7.7           |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 8        | 7.7           |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 5        | 7.7           |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 13       | 7.7           |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 13       | 7.7           |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 19       | 7.7           |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 16       | 7.7           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4268) | 1:A:22:GLN:HG3 | 1:A:34:ALA:H   | 5        | 7.7           |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H   | 1        | 7.7           |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H   | 13       | 7.7           |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD2 | 2        | 7.7           |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD3 | 2        | 7.7           |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD2 | 4        | 7.7           |
| (1,4083) | 1:A:21:SER:HG  | 1:A:30:PRO:HD3 | 4        | 7.7           |
| (1,4009) | 1:A:20:CYS:HB3 | 1:A:35:HIS:H   | 2        | 7.7           |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 5        | 7.7           |
| (1,3997) | 1:A:20:CYS:HB3 | 1:A:29:GLY:H   | 19       | 7.7           |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE1 | 9        | 7.7           |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE2 | 9        | 7.7           |
| (1,3863) | 1:A:19:CYS:HA  | 1:A:31:LYS:HB3 | 12       | 7.7           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2 | 15       | 7.7           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3 | 15       | 7.7           |
| (1,3709) | 1:A:18:LEU:HB3 | 1:A:23:TYR:HB2 | 17       | 7.7           |
| (1,3700) | 1:A:18:LEU:HB2 | 1:A:34:ALA:H   | 12       | 7.7           |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2 | 6        | 7.7           |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3 | 6        | 7.7           |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1 | 3        | 7.7           |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2 | 3        | 7.7           |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3 | 3        | 7.7           |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1 | 14       | 7.7           |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2 | 14       | 7.7           |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3 | 14       | 7.7           |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3 | 13       | 7.7           |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3 | 13       | 7.7           |
| (1,3387) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HA  | 15       | 7.7           |
| (1,3387) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HA  | 15       | 7.7           |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H   | 20       | 7.7           |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H   | 20       | 7.7           |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 2        | 7.7           |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA  | 4        | 7.7           |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 17       | 7.7           |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 2        | 7.7           |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 3        | 7.7           |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 7        | 7.7           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 15       | 7.7           |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 15       | 7.7           |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 9        | 7.7           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 7        | 7.7           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 7        | 7.7           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 1        | 7.7           |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 11       | 7.7           |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 15       | 7.7           |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 13       | 7.7           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 1        | 7.7           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 1        | 7.7           |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 1        | 7.7           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 11       | 7.7           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 11       | 7.7           |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 18       | 7.7           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2  | 12       | 7.7           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3  | 12       | 7.7           |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 9        | 7.7           |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 9        | 7.7           |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 3        | 7.7           |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 4        | 7.7           |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 16       | 7.7           |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 16       | 7.7           |
| (1,2085) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HG2  | 17       | 7.7           |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 5        | 7.7           |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 5        | 7.7           |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 5        | 7.7           |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 5        | 7.7           |
| (1,1897) | 1:A:6:GLN:HE22 | 1:A:26:CYS:HA   | 7        | 7.7           |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 7        | 7.7           |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 18       | 7.7           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 7        | 7.7           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 7        | 7.7           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 8        | 7.7           |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 8        | 7.7           |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 13       | 7.7           |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 1        | 7.7           |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2  | 15       | 7.7           |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 12       | 7.7           |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 12       | 7.7           |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 16       | 7.7           |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 19       | 7.7           |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2  | 7        | 7.7           |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2  | 8        | 7.7           |
| (1,1471) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HH2  | 18       | 7.7           |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 17       | 7.7           |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 17       | 7.7           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H    | 9        | 7.7           |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H    | 11       | 7.7           |
| (1,1069) | 1:A:4:ASN:H     | 1:A:18:LEU:HB3  | 15       | 7.7           |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD21 | 11       | 7.69          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD22 | 11       | 7.69          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD23 | 11       | 7.69          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD21 | 16       | 7.69          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD22 | 16       | 7.69          |
| (1,791)  | 1:A:3:PRO:HB2   | 1:A:18:LEU:HD23 | 16       | 7.69          |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3  | 3        | 7.69          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2   | 14       | 7.69          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3   | 14       | 7.69          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H    | 16       | 7.69          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H    | 16       | 7.69          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H    | 7        | 7.69          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H    | 13       | 7.69          |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H    | 19       | 7.69          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22  | 18       | 7.69          |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1  | 5        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2  | 8        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2  | 8        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2  | 8        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3  | 8        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3  | 8        | 7.69          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3  | 8        | 7.69          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H    | 4        | 7.69          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H    | 10       | 7.69          |
| (1,4575) | 1:A:25:TYR:HD1  | 1:A:33:CYS:H    | 2        | 7.69          |
| (1,4575) | 1:A:25:TYR:HD2  | 1:A:33:CYS:H    | 2        | 7.69          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3  | 10       | 7.69          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 9        | 7.69          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 9        | 7.69          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2  | 10       | 7.69          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3  | 10       | 7.69          |
| (1,4381) | 1:A:23:TYR:HB2  | 1:A:33:CYS:H    | 17       | 7.69          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2  | 4        | 7.69          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 16       | 7.69          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 3        | 7.69          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 3        | 7.69          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 15       | 7.69          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 15       | 7.69          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 11       | 7.69          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 10       | 7.69          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 19       | 7.69          |
| (1,4181) | 1:A:22:GLN:HB2  | 1:A:27:GLY:HA2  | 20       | 7.69          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H    | 9        | 7.69          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 1        | 7.69          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1  | 20       | 7.69          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2  | 20       | 7.69          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 5        | 7.69          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 5        | 7.69          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 1        | 7.69          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 1        | 7.69          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 15       | 7.69          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 15       | 7.69          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 10       | 7.69          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1  | 11       | 7.69          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2  | 11       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 16       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 16       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 16       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 20       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 20       | 7.69          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 20       | 7.69          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 11       | 7.69          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H    | 15       | 7.69          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1  | 17       | 7.69          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2  | 17       | 7.69          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3  | 17       | 7.69          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1  | 14       | 7.69          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2  | 14       | 7.69          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 10       | 7.69          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H    | 4        | 7.69          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3  | 8        | 7.69          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1  | 7        | 7.69          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2  | 7        | 7.69          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1  | 4        | 7.69          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2  | 4        | 7.69          |
| (1,3011) | 1:A:12:GLY:H    | 1:A:25:TYR:H    | 13       | 7.69          |
| (1,2862) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HA   | 14       | 7.69          |
| (1,2125) | 1:A:8:GLY:HA3   | 1:A:26:CYS:HB3  | 9        | 7.69          |
| (1,1989) | 1:A:7:CYS:HB2   | 1:A:17:GLY:HA2  | 20       | 7.69          |
| (1,1989) | 1:A:7:CYS:HB3   | 1:A:17:GLY:HA2  | 20       | 7.69          |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE   | 14       | 7.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE  | 14       | 7.69          |
| (1,1872) | 1:A:6:GLN:HE22  | 1:A:12:GLY:HA3 | 9        | 7.69          |
| (1,1834) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HA  | 11       | 7.69          |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB2  | 18       | 7.69          |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB3  | 18       | 7.69          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE1 | 15       | 7.69          |
| (1,1718) | 1:A:6:GLN:HG2   | 1:A:23:TYR:HE2 | 15       | 7.69          |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 19       | 7.69          |
| (1,1487) | 1:A:5:GLY:HA3   | 1:A:22:GLN:H   | 3        | 7.69          |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 16       | 7.69          |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 20       | 7.69          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 7        | 7.69          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 7        | 7.69          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 19       | 7.68          |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 6        | 7.68          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 15       | 7.68          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 15       | 7.68          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2 | 15       | 7.68          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3 | 15       | 7.68          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 9        | 7.68          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 9        | 7.68          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ1 | 10       | 7.68          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ2 | 10       | 7.68          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ3 | 10       | 7.68          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 8        | 7.68          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 2        | 7.68          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 2        | 7.68          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 18       | 7.68          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 19       | 7.68          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 20       | 7.68          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 16       | 7.68          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 16       | 7.68          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 16       | 7.68          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 16       | 7.68          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 1        | 7.68          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 1        | 7.68          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 4        | 7.68          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 4        | 7.68          |
| (1,4309) | 1:A:22:GLN:HE22 | 1:A:27:GLY:H   | 15       | 7.68          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 13       | 7.68          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 14       | 7.68          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 14       | 7.68          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 14       | 7.68          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 5        | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2  | 6        | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3  | 6        | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2  | 7        | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3  | 7        | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2  | 16       | 7.68          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3  | 16       | 7.68          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 12       | 7.68          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2  | 5        | 7.68          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3  | 5        | 7.68          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H    | 15       | 7.68          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3  | 16       | 7.68          |
| (1,3997) | 1:A:20:CYS:HB3  | 1:A:29:GLY:H    | 16       | 7.68          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 15       | 7.68          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 15       | 7.68          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 18       | 7.68          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 18       | 7.68          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 16       | 7.68          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1  | 3        | 7.68          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2  | 3        | 7.68          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1  | 6        | 7.68          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2  | 6        | 7.68          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 13       | 7.68          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 13       | 7.68          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 18       | 7.68          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 18       | 7.68          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 3        | 7.68          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2  | 15       | 7.68          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 9        | 7.68          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 9        | 7.68          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 9        | 7.68          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 9        | 7.68          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 9        | 7.68          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 19       | 7.68          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 19       | 7.68          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 19       | 7.68          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 2        | 7.68          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 2        | 7.68          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 13       | 7.68          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 13       | 7.68          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1  | 2        | 7.68          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2 | 2        | 7.68          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3 | 2        | 7.68          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1 | 4        | 7.68          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2 | 4        | 7.68          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3 | 4        | 7.68          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H   | 19       | 7.68          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H   | 19       | 7.68          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3 | 5        | 7.68          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 5        | 7.68          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H   | 3        | 7.68          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H   | 3        | 7.68          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H   | 4        | 7.68          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H   | 4        | 7.68          |
| (1,3302) | 1:A:15:ARG:HB2 | 1:A:25:TYR:HB3 | 1        | 7.68          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1 | 6        | 7.68          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2 | 6        | 7.68          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1 | 11       | 7.68          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2 | 11       | 7.68          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 3        | 7.68          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 11       | 7.68          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 11       | 7.68          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 4        | 7.68          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 10       | 7.68          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 6        | 7.68          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 6        | 7.68          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 16       | 7.68          |
| (1,2457) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HE1 | 9        | 7.68          |
| (1,2457) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HE1 | 9        | 7.68          |
| (1,2456) | 1:A:9:PRO:HD2  | 1:A:35:HIS:HD2 | 1        | 7.68          |
| (1,2456) | 1:A:9:PRO:HD3  | 1:A:35:HIS:HD2 | 1        | 7.68          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 2        | 7.68          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 4        | 7.68          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 5        | 7.68          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 6        | 7.68          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 10       | 7.68          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 9        | 7.68          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 17       | 7.68          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 2        | 7.68          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 5        | 7.68          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 6        | 7.68          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 10       | 7.68          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 20       | 7.68          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 15       | 7.68          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 15       | 7.68          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 13       | 7.68          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 7        | 7.68          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 8        | 7.68          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 20       | 7.68          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 20       | 7.68          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 11       | 7.68          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 12       | 7.68          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 17       | 7.68          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 18       | 7.68          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 1        | 7.68          |
| (1,1286) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HA   | 20       | 7.68          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 16       | 7.68          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 16       | 7.68          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 17       | 7.68          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 9        | 7.68          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 19       | 7.68          |
| (1,1000) | 1:A:3:PRO:HD3  | 1:A:8:GLY:H     | 10       | 7.68          |
| (1,903)  | 1:A:3:PRO:HG2  | 1:A:12:GLY:H    | 9        | 7.67          |
| (1,903)  | 1:A:3:PRO:HG3  | 1:A:12:GLY:H    | 9        | 7.67          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 2        | 7.67          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 3        | 7.67          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 17       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 18       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 18       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 18       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 19       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 19       | 7.67          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 19       | 7.67          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB2  | 13       | 7.67          |
| (1,723)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HB3  | 13       | 7.67          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2  | 5        | 7.67          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3  | 5        | 7.67          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 17       | 7.67          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 13       | 7.67          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 13       | 7.67          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 18       | 7.67          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 18       | 7.67          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H    | 9        | 7.67          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 5        | 7.67          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 8        | 7.67          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 12       | 7.67          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 16       | 7.67          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA  | 12       | 7.67          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA  | 14       | 7.67          |
| (1,4706) | 1:A:27:GLY:HA2  | 1:A:35:HIS:H   | 20       | 7.67          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG2 | 20       | 7.67          |
| (1,4672) | 1:A:26:CYS:HB3  | 1:A:31:LYS:HG3 | 20       | 7.67          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 1        | 7.67          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 2        | 7.67          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 11       | 7.67          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 12       | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 1        | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 1        | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 9        | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 9        | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 12       | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 12       | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 15       | 7.67          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 15       | 7.67          |
| (1,4609) | 1:A:26:CYS:H    | 1:A:29:GLY:H   | 16       | 7.67          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 8        | 7.67          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 8        | 7.67          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 10       | 7.67          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 10       | 7.67          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 17       | 7.67          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 17       | 7.67          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3 | 1        | 7.67          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3 | 1        | 7.67          |
| (1,4357) | 1:A:23:TYR:H    | 1:A:34:ALA:HA  | 16       | 7.67          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 18       | 7.67          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 3        | 7.67          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 3        | 7.67          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 3        | 7.67          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 8        | 7.67          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 14       | 7.67          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 15       | 7.67          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 4        | 7.67          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 4        | 7.67          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 3        | 7.67          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 19       | 7.67          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 17       | 7.67          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 10       | 7.67          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 12       | 7.67          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 12       | 7.67          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 17       | 7.67          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 17       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 12       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 12       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 12       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 13       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 13       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 13       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 15       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 15       | 7.67          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 15       | 7.67          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 18       | 7.67          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 18       | 7.67          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 18       | 7.67          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 3        | 7.67          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 3        | 7.67          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 5        | 7.67          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 5        | 7.67          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 10       | 7.67          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 3        | 7.67          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 3        | 7.67          |
| (1,3547) | 1:A:16:GLY:HA3  | 1:A:35:HIS:H   | 4        | 7.67          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 15       | 7.67          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2 | 16       | 7.67          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2 | 16       | 7.67          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3 | 16       | 7.67          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3 | 16       | 7.67          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 9        | 7.67          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 15       | 7.67          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 11       | 7.67          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2 | 11       | 7.67          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1 | 15       | 7.67          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2 | 15       | 7.67          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 6        | 7.67          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 6        | 7.67          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 20       | 7.67          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1 | 14       | 7.67          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2 | 14       | 7.67          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1 | 10       | 7.67          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2 | 10       | 7.67          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 3        | 7.67          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 7        | 7.67          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 8        | 7.67          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 18       | 7.67          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H   | 19       | 7.67          |
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE  | 12       | 7.67          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 7        | 7.67          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 7        | 7.67          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 1        | 7.67          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 1        | 7.67          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 3        | 7.67          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 14       | 7.67          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 20       | 7.67          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 3        | 7.67          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 4        | 7.67          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 19       | 7.67          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 8        | 7.67          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 14       | 7.67          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA  | 8        | 7.67          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 12       | 7.67          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 12       | 7.67          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 12       | 7.67          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 11       | 7.67          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 11       | 7.67          |
| (1,1645) | 1:A:6:GLN:HB3  | 1:A:21:SER:HB2 | 11       | 7.67          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 17       | 7.67          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 17       | 7.67          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 12       | 7.67          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 12       | 7.67          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 4        | 7.67          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 7        | 7.67          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 10       | 7.67          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 10       | 7.67          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1 | 5        | 7.67          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2 | 5        | 7.67          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 18       | 7.67          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H   | 9        | 7.67          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 13       | 7.66          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 1        | 7.66          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 1        | 7.66          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 6        | 7.66          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2  | 13       | 7.66          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3   | 13       | 7.66          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22  | 19       | 7.66          |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1  | 7        | 7.66          |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1  | 7        | 7.66          |
| (1,4736) | 1:A:28:SER:H    | 1:A:34:ALA:HA   | 8        | 7.66          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H    | 4        | 7.66          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H    | 15       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 11       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 11       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 13       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 13       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 14       | 7.66          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 14       | 7.66          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 7.66          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3  | 16       | 7.66          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 4        | 7.66          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 4        | 7.66          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 8        | 7.66          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 8        | 7.66          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 14       | 7.66          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2  | 3        | 7.66          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3  | 3        | 7.66          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 10       | 7.66          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 20       | 7.66          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 12       | 7.66          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 12       | 7.66          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 5        | 7.66          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 5        | 7.66          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 15       | 7.66          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 10       | 7.66          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 17       | 7.66          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 17       | 7.66          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 1        | 7.66          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 1        | 7.66          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 1        | 7.66          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 3        | 7.66          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA   | 12       | 7.66          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1  | 1        | 7.66          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2  | 1        | 7.66          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE   | 14       | 7.66          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1  | 5        | 7.66          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2  | 5        | 7.66          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 2        | 7.66          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 6        | 7.66          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 9        | 7.66          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 12       | 7.66          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 16       | 7.66          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 20       | 7.66          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB2  | 14       | 7.66          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB3  | 14       | 7.66          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 1        | 7.66          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 1        | 7.66          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 13       | 7.66          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 13       | 7.66          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 13       | 7.66          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 15       | 7.66          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 11       | 7.66          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 11       | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 7        | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 8        | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 12       | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 16       | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 18       | 7.66          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 19       | 7.66          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 18       | 7.66          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 14       | 7.66          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 14       | 7.66          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB2  | 17       | 7.66          |
| (1,2073) | 1:A:8:GLY:H    | 1:A:32:TYR:HB3  | 17       | 7.66          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 15       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 7        | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 16       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 16       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 16       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 16       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 16       | 7.66          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 16       | 7.66          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 7        | 7.66          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 7        | 7.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE1 | 7        | 7.66          |
| (1,2003) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HE2 | 7        | 7.66          |
| (1,1834) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HA  | 16       | 7.66          |
| (1,1834) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HA  | 20       | 7.66          |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA2 | 14       | 7.66          |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA3 | 14       | 7.66          |
| (1,1771) | 1:A:6:GLN:HG3   | 1:A:27:GLY:HA2 | 6        | 7.66          |
| (1,1747) | 1:A:6:GLN:HG3   | 1:A:13:GLY:H   | 10       | 7.66          |
| (1,1747) | 1:A:6:GLN:HG3   | 1:A:13:GLY:H   | 14       | 7.66          |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 7        | 7.66          |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 8        | 7.66          |
| (1,1189) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HA  | 18       | 7.66          |
| (1,1133) | 1:A:4:ASN:HB2   | 1:A:12:GLY:H   | 15       | 7.66          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 12       | 7.66          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 18       | 7.65          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 17       | 7.65          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 20       | 7.65          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 20       | 7.65          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 7        | 7.65          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 14       | 7.65          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 16       | 7.65          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 11       | 7.65          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 11       | 7.65          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 11       | 7.65          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 8        | 7.65          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 8        | 7.65          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 11       | 7.65          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 11       | 7.65          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 11       | 7.65          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 11       | 7.65          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 15       | 7.65          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 15       | 7.65          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 7        | 7.65          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 12       | 7.65          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 15       | 7.65          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA2 | 12       | 7.65          |
| (1,4233) | 1:A:22:GLN:HB3  | 1:A:29:GLY:HA3 | 12       | 7.65          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 15       | 7.65          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 8        | 7.65          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 20       | 7.65          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 7        | 7.65          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 7        | 7.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 12       | 7.65          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 10       | 7.65          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 10       | 7.65          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 18       | 7.65          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 18       | 7.65          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 18       | 7.65          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 20       | 7.65          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 14       | 7.65          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 14       | 7.65          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 15       | 7.65          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 15       | 7.65          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 2        | 7.65          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 2        | 7.65          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 2        | 7.65          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 11       | 7.65          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 11       | 7.65          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 11       | 7.65          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 1        | 7.65          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 10       | 7.65          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 10       | 7.65          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 4        | 7.65          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 4        | 7.65          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 13       | 7.65          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 13       | 7.65          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 9        | 7.65          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 9        | 7.65          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 19       | 7.65          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 19       | 7.65          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H   | 18       | 7.65          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H   | 18       | 7.65          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 5        | 7.65          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2 | 12       | 7.65          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 4        | 7.65          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 6        | 7.65          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 6        | 7.65          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 17       | 7.65          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 17       | 7.65          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H   | 1        | 7.65          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 9        | 7.65          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA  | 8        | 7.65          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1 | 4        | 7.65          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2 | 4        | 7.65          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1  | 16       | 7.65          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2  | 16       | 7.65          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 5        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 3        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 3        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 3        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 6        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 6        | 7.65          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 6        | 7.65          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 15       | 7.65          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 15       | 7.65          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 1        | 7.65          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 1        | 7.65          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 16       | 7.65          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 20       | 7.65          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 20       | 7.65          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 8        | 7.65          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 8        | 7.65          |
| (1,1870) | 1:A:6:GLN:HE22 | 1:A:10:GLY:HA2  | 17       | 7.65          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 18       | 7.65          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 19       | 7.65          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 8        | 7.65          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 8        | 7.65          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 15       | 7.65          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 15       | 7.65          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 20       | 7.65          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 2        | 7.65          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 4        | 7.65          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 5        | 7.65          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 6        | 7.65          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 15       | 7.65          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 16       | 7.65          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 20       | 7.65          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 20       | 7.65          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 20       | 7.65          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 11       | 7.65          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 14       | 7.65          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2  | 5        | 7.65          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3  | 5        | 7.65          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 10       | 7.65          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 10       | 7.65          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA   | 19       | 7.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 2        | 7.65          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 3        | 7.65          |
| (1,1085) | 1:A:4:ASN:H     | 1:A:23:TYR:HB3 | 4        | 7.65          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 7        | 7.64          |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 11       | 7.64          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 5        | 7.64          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 14       | 7.64          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 20       | 7.64          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 20       | 7.64          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 16       | 7.64          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 16       | 7.64          |
| (1,4661) | 1:A:26:CYS:HB2  | 1:A:32:TYR:H   | 13       | 7.64          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 4        | 7.64          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 4        | 7.64          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 4        | 7.64          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 4        | 7.64          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 13       | 7.64          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 13       | 7.64          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 13       | 7.64          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 13       | 7.64          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 2        | 7.64          |
| (1,4535) | 1:A:25:TYR:HB2  | 1:A:29:GLY:HA3 | 2        | 7.64          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 9        | 7.64          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 9        | 7.64          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 9        | 7.64          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 4        | 7.64          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 4        | 7.64          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 5        | 7.64          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 14       | 7.64          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 18       | 7.64          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 18       | 7.64          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 20       | 7.64          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 20       | 7.64          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 20       | 7.64          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 20       | 7.64          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 1        | 7.64          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 1        | 7.64          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 10       | 7.64          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 12       | 7.64          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 11       | 7.64          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 11       | 7.64          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 6        | 7.64          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 18       | 7.64          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1  | 12       | 7.64          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2  | 12       | 7.64          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2  | 4        | 7.64          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 1        | 7.64          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 6        | 7.64          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 6        | 7.64          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 6        | 7.64          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 11       | 7.64          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 11       | 7.64          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 8        | 7.64          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 1        | 7.64          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 1        | 7.64          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 11       | 7.64          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 11       | 7.64          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 2        | 7.64          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 2        | 7.64          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 6        | 7.64          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H    | 2        | 7.64          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3  | 6        | 7.64          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 7        | 7.64          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 18       | 7.64          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 19       | 7.64          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1  | 9        | 7.64          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2  | 9        | 7.64          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 2        | 7.64          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 2        | 7.64          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 14       | 7.64          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 14       | 7.64          |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 14       | 7.64          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3  | 16       | 7.64          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1  | 2        | 7.64          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2  | 2        | 7.64          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2  | 6        | 7.64          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3  | 6        | 7.64          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2  | 12       | 7.64          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3  | 12       | 7.64          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 4        | 7.64          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 4        | 7.64          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 4        | 7.64          |
| (1,2677) | 1:A:11:TRP:HB3  | 1:A:15:ARG:H    | 17       | 7.64          |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE   | 19       | 7.64          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 1        | 7.64          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 1        | 7.64          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 1        | 7.64          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 11       | 7.64          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3  | 3        | 7.64          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3  | 3        | 7.64          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 7        | 7.64          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 9        | 7.64          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 18       | 7.64          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 19       | 7.64          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 20       | 7.64          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 1        | 7.64          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3  | 11       | 7.64          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 9        | 7.64          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 20       | 7.64          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 7        | 7.64          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 7        | 7.64          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 18       | 7.64          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 18       | 7.64          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 19       | 7.64          |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 19       | 7.64          |
| (1,1834) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HA   | 7        | 7.64          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 1        | 7.64          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 1        | 7.64          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 4        | 7.64          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 8        | 7.64          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 16       | 7.64          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 19       | 7.64          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 1        | 7.64          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 12       | 7.64          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 1        | 7.64          |
| (1,1142) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HB3  | 9        | 7.64          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H    | 4        | 7.63          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H    | 4        | 7.63          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 20       | 7.63          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 20       | 7.63          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 20       | 7.63          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2  | 15       | 7.63          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 8        | 7.63          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 7        | 7.63          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 7        | 7.63          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 18       | 7.63          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3   | 18       | 7.63          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2   | 19       | 7.63          |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3   | 19       | 7.63          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2  | 10       | 7.63          |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3  | 10       | 7.63          |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA   | 2        | 7.63          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2  | 14       | 7.63          |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3  | 14       | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 3        | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 3        | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 4        | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 4        | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 6        | 7.63          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 6        | 7.63          |
| (1,4277) | 1:A:22:GLN:HE21 | 1:A:26:CYS:HA   | 16       | 7.63          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA   | 12       | 7.63          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H    | 10       | 7.63          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 17       | 7.63          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H    | 10       | 7.63          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 16       | 7.63          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 20       | 7.63          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 13       | 7.63          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 13       | 7.63          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 10       | 7.63          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 20       | 7.63          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 12       | 7.63          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 12       | 7.63          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 5        | 7.63          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 5        | 7.63          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 5        | 7.63          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA   | 10       | 7.63          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA   | 10       | 7.63          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA   | 10       | 7.63          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 1        | 7.63          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 13       | 7.63          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1  | 15       | 7.63          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2  | 15       | 7.63          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3  | 15       | 7.63          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 7        | 7.63          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 18       | 7.63          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 19       | 7.63          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 6        | 7.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD2 | 6        | 7.63          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB1 | 5        | 7.63          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB2 | 5        | 7.63          |
| (1,3546) | 1:A:16:GLY:HA3 | 1:A:34:ALA:HB3 | 5        | 7.63          |
| (1,3517) | 1:A:16:GLY:HA2 | 1:A:32:TYR:H   | 17       | 7.63          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 1        | 7.63          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 6        | 7.63          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 7        | 7.63          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2 | 9        | 7.63          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H   | 3        | 7.63          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H   | 12       | 7.63          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 15       | 7.63          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2 | 3        | 7.63          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3 | 3        | 7.63          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2 | 4        | 7.63          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3 | 4        | 7.63          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1 | 7        | 7.63          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2 | 7        | 7.63          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 7        | 7.63          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 9        | 7.63          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 18       | 7.63          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA  | 19       | 7.63          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 18       | 7.63          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 19       | 7.63          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 2        | 7.63          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 4        | 7.63          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 2        | 7.63          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H   | 1        | 7.63          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2 | 3        | 7.63          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3 | 3        | 7.63          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 20       | 7.63          |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 20       | 7.63          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 8        | 7.63          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 16       | 7.63          |
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 15       | 7.63          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 8        | 7.63          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 14       | 7.63          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 19       | 7.63          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 11       | 7.63          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 11       | 7.63          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA  | 1        | 7.63          |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H   | 16       | 7.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 16       | 7.63          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 2        | 7.63          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 2        | 7.63          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 2        | 7.63          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 2        | 7.63          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 9        | 7.63          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 9        | 7.63          |
| (1,1989) | 1:A:7:CYS:HB2  | 1:A:17:GLY:HA2  | 12       | 7.63          |
| (1,1989) | 1:A:7:CYS:HB3  | 1:A:17:GLY:HA2  | 12       | 7.63          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 17       | 7.63          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 17       | 7.63          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 14       | 7.63          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 16       | 7.63          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 16       | 7.63          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 19       | 7.63          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 19       | 7.63          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 3        | 7.63          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 7        | 7.63          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 18       | 7.63          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 20       | 7.63          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 6        | 7.63          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 6        | 7.63          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 6        | 7.63          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 15       | 7.63          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 8        | 7.63          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 5        | 7.63          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 6        | 7.63          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 10       | 7.63          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 9        | 7.62          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 9        | 7.62          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 9        | 7.62          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 18       | 7.62          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 18       | 7.62          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 11       | 7.62          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 11       | 7.62          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 16       | 7.62          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 16       | 7.62          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 13       | 7.62          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA   | 4        | 7.62          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2  | 18       | 7.62          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA3  | 18       | 7.62          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2  | 19       | 7.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 19       | 7.62          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2  | 20       | 7.62          |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3  | 20       | 7.62          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2  | 15       | 7.62          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3  | 15       | 7.62          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 8        | 7.62          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 8        | 7.62          |
| (1,4399) | 1:A:23:TYR:HD1  | 1:A:29:GLY:HA3  | 3        | 7.62          |
| (1,4399) | 1:A:23:TYR:HD2  | 1:A:29:GLY:HA3  | 3        | 7.62          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 8        | 7.62          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 3        | 7.62          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2  | 2        | 7.62          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3  | 2        | 7.62          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 15       | 7.62          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 9        | 7.62          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 2        | 7.62          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 10       | 7.62          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1  | 7        | 7.62          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2  | 7        | 7.62          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3  | 7        | 7.62          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA   | 18       | 7.62          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2  | 14       | 7.62          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3  | 14       | 7.62          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1  | 8        | 7.62          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2  | 8        | 7.62          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3  | 8        | 7.62          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2  | 10       | 7.62          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1  | 17       | 7.62          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2  | 17       | 7.62          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 3        | 7.62          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 3        | 7.62          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 5        | 7.62          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 5        | 7.62          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 3        | 7.62          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 3        | 7.62          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 3        | 7.62          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA   | 17       | 7.62          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA   | 17       | 7.62          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA   | 17       | 7.62          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 17       | 7.62          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 17       | 7.62          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 17       | 7.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA   | 7        | 7.62          |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG   | 4        | 7.62          |
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H    | 15       | 7.62          |
| (1,3616) | 1:A:17:GLY:HA2 | 1:A:35:HIS:H    | 2        | 7.62          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1  | 17       | 7.62          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2  | 17       | 7.62          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3  | 17       | 7.62          |
| (1,3511) | 1:A:16:GLY:HA2 | 1:A:28:SER:H    | 1        | 7.62          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H    | 2        | 7.62          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H    | 2        | 7.62          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1  | 18       | 7.62          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2  | 18       | 7.62          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1  | 20       | 7.62          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2  | 20       | 7.62          |
| (1,3276) | 1:A:15:ARG:H   | 1:A:32:TYR:HB3  | 3        | 7.62          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3  | 1        | 7.62          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1  | 8        | 7.62          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2  | 8        | 7.62          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA   | 20       | 7.62          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 10       | 7.62          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 14       | 7.62          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1  | 13       | 7.62          |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2  | 13       | 7.62          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 4        | 7.62          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 4        | 7.62          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 7        | 7.62          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 7        | 7.62          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 13       | 7.62          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD1  | 17       | 7.62          |
| (1,2475) | 1:A:10:GLY:H   | 1:A:25:TYR:HD2  | 17       | 7.62          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 7        | 7.62          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 12       | 7.62          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 16       | 7.62          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 18       | 7.62          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 9        | 7.62          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 19       | 7.62          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 19       | 7.62          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 12       | 7.62          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 14       | 7.62          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 14       | 7.62          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 14       | 7.62          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 7        | 7.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 7        | 7.62          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 18       | 7.62          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 18       | 7.62          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 2        | 7.62          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 3        | 7.62          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H    | 9        | 7.62          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 14       | 7.62          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 1        | 7.62          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 1        | 7.62          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 18       | 7.62          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 18       | 7.62          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 12       | 7.62          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 12       | 7.62          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 14       | 7.62          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 20       | 7.62          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 7        | 7.62          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 8        | 7.61          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 8        | 7.61          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 8        | 7.61          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA   | 8        | 7.61          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA   | 15       | 7.61          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 19       | 7.61          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 5        | 7.61          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 7        | 7.61          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 12       | 7.61          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 20       | 7.61          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 12       | 7.61          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 12       | 7.61          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 6        | 7.61          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 11       | 7.61          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA   | 8        | 7.61          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2  | 17       | 7.61          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 4        | 7.61          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 8        | 7.61          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA   | 13       | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2  | 2        | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA3  | 2        | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2  | 5        | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA3  | 5        | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2  | 17       | 7.61          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA3  | 17       | 7.61          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 1        | 7.61          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2 | 1        | 7.61          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 1        | 7.61          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 1        | 7.61          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 14       | 7.61          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 14       | 7.61          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 14       | 7.61          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 14       | 7.61          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 16       | 7.61          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 16       | 7.61          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 10       | 7.61          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 10       | 7.61          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 6        | 7.61          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 15       | 7.61          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 15       | 7.61          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 5        | 7.61          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 5        | 7.61          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 18       | 7.61          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 18       | 7.61          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 1        | 7.61          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 12       | 7.61          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 16       | 7.61          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 16       | 7.61          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 20       | 7.61          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 20       | 7.61          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 16       | 7.61          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 16       | 7.61          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 16       | 7.61          |
| (1,4002) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HG3 | 14       | 7.61          |
| (1,3999) | 1:A:20:CYS:HB3  | 1:A:30:PRO:HA  | 19       | 7.61          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 17       | 7.61          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 11       | 7.61          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 11       | 7.61          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE1 | 8        | 7.61          |
| (1,3831) | 1:A:19:CYS:H    | 1:A:25:TYR:HE2 | 8        | 7.61          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 13       | 7.61          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 13       | 7.61          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 13       | 7.61          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 13       | 7.61          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 13       | 7.61          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 13       | 7.61          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 7        | 7.61          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 7        | 7.61          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 7        | 7.61          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 1        | 7.61          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 17       | 7.61          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 17       | 7.61          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1 | 6        | 7.61          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2 | 6        | 7.61          |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3 | 6        | 7.61          |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2 | 2        | 7.61          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 9        | 7.61          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 9        | 7.61          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 3        | 7.61          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 3        | 7.61          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 15       | 7.61          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 15       | 7.61          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2 | 16       | 7.61          |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 15       | 7.61          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 19       | 7.61          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 19       | 7.61          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 3        | 7.61          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 3        | 7.61          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 10       | 7.61          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 10       | 7.61          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 6        | 7.61          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 5        | 7.61          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 5        | 7.61          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 9        | 7.61          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 9        | 7.61          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 7        | 7.61          |
| (1,2999) | 1:A:12:GLY:H    | 1:A:21:SER:H   | 11       | 7.61          |
| (1,2999) | 1:A:12:GLY:H    | 1:A:21:SER:H   | 13       | 7.61          |
| (1,2999) | 1:A:12:GLY:H    | 1:A:21:SER:H   | 15       | 7.61          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2 | 9        | 7.61          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3 | 9        | 7.61          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2 | 19       | 7.61          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3 | 19       | 7.61          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB2 | 8        | 7.61          |
| (1,2616) | 1:A:11:TRP:HA   | 1:A:15:ARG:HB3 | 8        | 7.61          |
| (1,2391) | 1:A:9:PRO:HG3   | 1:A:23:TYR:HA  | 17       | 7.61          |
| (1,2125) | 1:A:8:GLY:HA3   | 1:A:26:CYS:HB3 | 8        | 7.61          |
| (1,2047) | 1:A:8:GLY:H     | 1:A:22:GLN:HA  | 11       | 7.61          |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA2 | 20       | 7.61          |
| (1,1804) | 1:A:6:GLN:HE21  | 1:A:13:GLY:HA3 | 20       | 7.61          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 15       | 7.61          |
| (1,1518) | 1:A:6:GLN:H     | 1:A:19:CYS:HA  | 15       | 7.61          |
| (1,1471) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HH2 | 9        | 7.61          |
| (1,1189) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HA  | 7        | 7.61          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 1        | 7.61          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 4        | 7.61          |
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H   | 13       | 7.61          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 13       | 7.6           |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 16       | 7.6           |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 9        | 7.6           |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB2  | 8        | 7.6           |
| (1,715)  | 1:A:2:GLY:HA3   | 1:A:9:PRO:HB3  | 8        | 7.6           |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA2 | 2        | 7.6           |
| (1,650)  | 1:A:2:GLY:H     | 1:A:27:GLY:HA3 | 2        | 7.6           |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 15       | 7.6           |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 15       | 7.6           |
| (1,531)  | 1:A:1:SER:HA    | 1:A:27:GLY:H   | 11       | 7.6           |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 3        | 7.6           |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 4        | 7.6           |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 9        | 7.6           |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 9        | 7.6           |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 7        | 7.6           |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2 | 12       | 7.6           |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3 | 12       | 7.6           |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA  | 7        | 7.6           |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA  | 15       | 7.6           |
| (1,4717) | 1:A:27:GLY:HA3  | 1:A:34:ALA:HA  | 16       | 7.6           |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 19       | 7.6           |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 19       | 7.6           |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA2 | 16       | 7.6           |
| (1,4610) | 1:A:26:CYS:H    | 1:A:29:GLY:HA3 | 16       | 7.6           |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 10       | 7.6           |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 10       | 7.6           |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 10       | 7.6           |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 11       | 7.6           |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 11       | 7.6           |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 5        | 7.6           |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 5        | 7.6           |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 13       | 7.6           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 20       | 7.6           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 20       | 7.6           |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 17       | 7.6           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 4        | 7.6           |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 4        | 7.6           |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 9        | 7.6           |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 9        | 7.6           |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 2        | 7.6           |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 18       | 7.6           |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 18       | 7.6           |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 19       | 7.6           |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 19       | 7.6           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 19       | 7.6           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 19       | 7.6           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 4        | 7.6           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 4        | 7.6           |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 4        | 7.6           |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 17       | 7.6           |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 6        | 7.6           |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 1        | 7.6           |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 1        | 7.6           |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 9        | 7.6           |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 9        | 7.6           |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 3        | 7.6           |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 5        | 7.6           |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 5        | 7.6           |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 5        | 7.6           |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 15       | 7.6           |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 15       | 7.6           |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 15       | 7.6           |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 3        | 7.6           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 20       | 7.6           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 20       | 7.6           |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2 | 20       | 7.6           |
| (1,3573) | 1:A:17:GLY:H    | 1:A:30:PRO:HA  | 16       | 7.6           |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 13       | 7.6           |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 20       | 7.6           |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 20       | 7.6           |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 8        | 7.6           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 2        | 7.6           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 2        | 7.6           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 16       | 7.6           |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 13       | 7.6           |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1 | 12       | 7.6           |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2 | 12       | 7.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H   | 1        | 7.6           |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1 | 15       | 7.6           |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2 | 15       | 7.6           |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 15       | 7.6           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 1        | 7.6           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 1        | 7.6           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD1 | 15       | 7.6           |
| (1,3066) | 1:A:12:GLY:HA3 | 1:A:25:TYR:HD2 | 15       | 7.6           |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 18       | 7.6           |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 18       | 7.6           |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 17       | 7.6           |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 17       | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2 | 2        | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3 | 2        | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2 | 18       | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3 | 18       | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2 | 20       | 7.6           |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3 | 20       | 7.6           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB2 | 9        | 7.6           |
| (1,2616) | 1:A:11:TRP:HA  | 1:A:15:ARG:HB3 | 9        | 7.6           |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 12       | 7.6           |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 11       | 7.6           |
| (1,2126) | 1:A:8:GLY:HA3  | 1:A:27:GLY:H   | 17       | 7.6           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 1        | 7.6           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 1        | 7.6           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 13       | 7.6           |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 13       | 7.6           |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 1        | 7.6           |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 2        | 7.6           |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 11       | 7.6           |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 9        | 7.6           |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 9        | 7.6           |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2 | 5        | 7.6           |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3  | 13       | 7.6           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 10       | 7.6           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 10       | 7.6           |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H   | 5        | 7.6           |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3 | 15       | 7.6           |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 19       | 7.6           |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 19       | 7.6           |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 9        | 7.6           |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 8        | 7.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1085) | 1:A:4:ASN:H    | 1:A:23:TYR:HB3 | 6        | 7.6           |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 12       | 7.6           |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2 | 13       | 7.6           |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3 | 13       | 7.6           |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 1        | 7.59          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 10       | 7.59          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3 | 9        | 7.59          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2 | 4        | 7.59          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3 | 4        | 7.59          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 16       | 7.59          |
| (1,721)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:H   | 2        | 7.59          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 3        | 7.59          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 7        | 7.59          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 7        | 7.59          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 13       | 7.59          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 13       | 7.59          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H   | 17       | 7.59          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H   | 17       | 7.59          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 10       | 7.59          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 14       | 7.59          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 14       | 7.59          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 12       | 7.59          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 10       | 7.59          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 12       | 7.59          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA  | 14       | 7.59          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 2        | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 7        | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 7        | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 7        | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 14       | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 14       | 7.59          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 14       | 7.59          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 4        | 7.59          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 4        | 7.59          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG2 | 4        | 7.59          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG3 | 4        | 7.59          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 16       | 7.59          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 16       | 7.59          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 15       | 7.59          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 15       | 7.59          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 15       | 7.59          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 15       | 7.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 8        | 7.59          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 8        | 7.59          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 17       | 7.59          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 17       | 7.59          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 7        | 7.59          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 7        | 7.59          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 10       | 7.59          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 10       | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 7        | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 7        | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 8        | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 8        | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 14       | 7.59          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 14       | 7.59          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 4        | 7.59          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 4        | 7.59          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 4        | 7.59          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 18       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 18       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 18       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 19       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 19       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 19       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 20       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 20       | 7.59          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 20       | 7.59          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 7        | 7.59          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 6        | 7.59          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 12       | 7.59          |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2 | 7        | 7.59          |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2 | 7        | 7.59          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 11       | 7.59          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 11       | 7.59          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 5        | 7.59          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 5        | 7.59          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H   | 15       | 7.59          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 1        | 7.59          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 1        | 7.59          |
| (1,3310) | 1:A:15:ARG:HB2  | 1:A:29:GLY:H   | 13       | 7.59          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 5        | 7.59          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 20       | 7.59          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 11       | 7.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE1  | 12       | 7.59          |
| (1,3243) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HE2  | 12       | 7.59          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA   | 20       | 7.59          |
| (1,3200) | 1:A:14:CYS:HB2 | 1:A:22:GLN:HA   | 7        | 7.59          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 13       | 7.59          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1  | 8        | 7.59          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2  | 8        | 7.59          |
| (1,3011) | 1:A:12:GLY:H   | 1:A:25:TYR:H    | 14       | 7.59          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 8        | 7.59          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 8        | 7.59          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 16       | 7.59          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 16       | 7.59          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 2        | 7.59          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 2        | 7.59          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 2        | 7.59          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 11       | 7.59          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 11       | 7.59          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 14       | 7.59          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 17       | 7.59          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 10       | 7.59          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 14       | 7.59          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 14       | 7.59          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 7        | 7.59          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 7        | 7.59          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 4        | 7.59          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 9        | 7.59          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 4        | 7.59          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 1        | 7.59          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2   | 9        | 7.59          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3   | 9        | 7.59          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 6        | 7.59          |
| (1,1586) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HB3   | 11       | 7.59          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 8        | 7.59          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 8        | 7.59          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 9        | 7.59          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 9        | 7.59          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 20       | 7.59          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 20       | 7.59          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2  | 2        | 7.59          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3  | 2        | 7.59          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 12       | 7.59          |
| (1,1066) | 1:A:4:ASN:H    | 1:A:15:ARG:HE   | 1        | 7.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 11       | 7.58          |
| (1,756)  | 1:A:3:PRO:HA    | 1:A:18:LEU:HB3 | 20       | 7.58          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 3        | 7.58          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 3        | 7.58          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB2 | 15       | 7.58          |
| (1,723)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HB3 | 15       | 7.58          |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 19       | 7.58          |
| (1,721)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:H   | 10       | 7.58          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 14       | 7.58          |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 20       | 7.58          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 20       | 7.58          |
| (1,579)  | 1:A:1:SER:HB2   | 1:A:28:SER:H   | 5        | 7.58          |
| (1,579)  | 1:A:1:SER:HB3   | 1:A:28:SER:H   | 5        | 7.58          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 6        | 7.58          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 17       | 7.58          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 17       | 7.58          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 17       | 7.58          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 17       | 7.58          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 9        | 7.58          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 2        | 7.58          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 2        | 7.58          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 4        | 7.58          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 4        | 7.58          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 6        | 7.58          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 12       | 7.58          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 13       | 7.58          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 17       | 7.58          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 15       | 7.58          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 15       | 7.58          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 8        | 7.58          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 15       | 7.58          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 15       | 7.58          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 2        | 7.58          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 2        | 7.58          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 2        | 7.58          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 10       | 7.58          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 10       | 7.58          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 10       | 7.58          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 3        | 7.58          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 3        | 7.58          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 3        | 7.58          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 8        | 7.58          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 8        | 7.58          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 8        | 7.58          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H    | 16       | 7.58          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H    | 16       | 7.58          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H    | 16       | 7.58          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG   | 13       | 7.58          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 16       | 7.58          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 16       | 7.58          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 12       | 7.58          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 12       | 7.58          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 8        | 7.58          |
| (1,3593) | 1:A:17:GLY:HA2  | 1:A:20:CYS:HB2  | 12       | 7.58          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 14       | 7.58          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2  | 14       | 7.58          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2  | 14       | 7.58          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3  | 14       | 7.58          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3  | 14       | 7.58          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 17       | 7.58          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 5        | 7.58          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 5        | 7.58          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H    | 12       | 7.58          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA   | 9        | 7.58          |
| (1,3200) | 1:A:14:CYS:HB2  | 1:A:22:GLN:HA   | 16       | 7.58          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE1  | 8        | 7.58          |
| (1,3190) | 1:A:14:CYS:H    | 1:A:32:TYR:HE2  | 8        | 7.58          |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 12       | 7.58          |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 15       | 7.58          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1  | 20       | 7.58          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2  | 20       | 7.58          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 14       | 7.58          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD1  | 17       | 7.58          |
| (1,3066) | 1:A:12:GLY:HA3  | 1:A:25:TYR:HD2  | 17       | 7.58          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1  | 20       | 7.58          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2  | 20       | 7.58          |
| (1,2999) | 1:A:12:GLY:H    | 1:A:21:SER:H    | 2        | 7.58          |
| (1,2999) | 1:A:12:GLY:H    | 1:A:21:SER:H    | 10       | 7.58          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB2  | 5        | 7.58          |
| (1,2870) | 1:A:11:TRP:HE1  | 1:A:26:CYS:HB3  | 5        | 7.58          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 10       | 7.58          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 10       | 7.58          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 10       | 7.58          |
| (1,2303) | 1:A:9:PRO:HG2   | 1:A:13:GLY:H    | 15       | 7.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2296) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE3 | 13       | 7.58          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3 | 1        | 7.58          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 12       | 7.58          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H   | 2        | 7.58          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 5        | 7.58          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 5        | 7.58          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 6        | 7.58          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 6        | 7.58          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 16       | 7.58          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 16       | 7.58          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 16       | 7.58          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 16       | 7.58          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 20       | 7.58          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 11       | 7.58          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 11       | 7.58          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 4        | 7.58          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 13       | 7.58          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 13       | 7.58          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB2  | 15       | 7.58          |
| (1,1795) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HB3  | 15       | 7.58          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 5        | 7.58          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 10       | 7.58          |
| (1,1705) | 1:A:6:GLN:HG2  | 1:A:13:GLY:H   | 17       | 7.58          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 20       | 7.58          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 20       | 7.58          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 19       | 7.58          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 19       | 7.58          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 6        | 7.58          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 6        | 7.58          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 16       | 7.58          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H   | 2        | 7.58          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H   | 15       | 7.58          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 3        | 7.57          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 3        | 7.57          |
| (1,849)  | 1:A:3:PRO:HB3  | 1:A:15:ARG:HE  | 1        | 7.57          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 6        | 7.57          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA  | 12       | 7.57          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 6        | 7.57          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 16       | 7.57          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 3        | 7.57          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 3        | 7.57          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 16       | 7.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 5        | 7.57          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 11       | 7.57          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 11       | 7.57          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 10       | 7.57          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 10       | 7.57          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 10       | 7.57          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 12       | 7.57          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 12       | 7.57          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 11       | 7.57          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 18       | 7.57          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 15       | 7.57          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 15       | 7.57          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 3        | 7.57          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 4        | 7.57          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 13       | 7.57          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 19       | 7.57          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 19       | 7.57          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 17       | 7.57          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 11       | 7.57          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 16       | 7.57          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 3        | 7.57          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 3        | 7.57          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 6        | 7.57          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 6        | 7.57          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 17       | 7.57          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 4        | 7.57          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 17       | 7.57          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 14       | 7.57          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 6        | 7.57          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 6        | 7.57          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 6        | 7.57          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 2        | 7.57          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 2        | 7.57          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 2        | 7.57          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 16       | 7.57          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 9        | 7.57          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 19       | 7.57          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 19       | 7.57          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 2        | 7.57          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 10       | 7.57          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 18       | 7.57          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 18       | 7.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H    | 5        | 7.57          |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H    | 14       | 7.57          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H    | 11       | 7.57          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H    | 12       | 7.57          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2  | 1        | 7.57          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3  | 1        | 7.57          |
| (1,3387) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HA   | 13       | 7.57          |
| (1,3387) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HA   | 13       | 7.57          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2  | 8        | 7.57          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3  | 7        | 7.57          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 18       | 7.57          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA   | 20       | 7.57          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 4        | 7.57          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 9        | 7.57          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 9        | 7.57          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1  | 17       | 7.57          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2  | 17       | 7.57          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 13       | 7.57          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 5        | 7.57          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 6        | 7.57          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 19       | 7.57          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 19       | 7.57          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 3        | 7.57          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 4        | 7.57          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 10       | 7.57          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 10       | 7.57          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 5        | 7.57          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 5        | 7.57          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 5        | 7.57          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 1        | 7.57          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 1        | 7.57          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 4        | 7.57          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 6        | 7.57          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 4        | 7.57          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 4        | 7.57          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 4        | 7.57          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 4        | 7.57          |
| (1,2397) | 1:A:9:PRO:HG3  | 1:A:25:TYR:H    | 17       | 7.57          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 15       | 7.57          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 2        | 7.57          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 2        | 7.57          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 2        | 7.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 2        | 7.57          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 10       | 7.57          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 10       | 7.57          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 6        | 7.57          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 6        | 7.57          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 6        | 7.57          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 6        | 7.57          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 15       | 7.57          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 18       | 7.57          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA   | 19       | 7.57          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 13       | 7.57          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 13       | 7.57          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 11       | 7.57          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 15       | 7.57          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 3        | 7.57          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 2        | 7.57          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 4        | 7.57          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2  | 18       | 7.57          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3  | 18       | 7.57          |
| (1,1487) | 1:A:5:GLY:HA3  | 1:A:22:GLN:H    | 2        | 7.57          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 4        | 7.57          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 15       | 7.57          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 15       | 7.57          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 18       | 7.57          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 18       | 7.57          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA   | 12       | 7.57          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 8        | 7.57          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 7        | 7.56          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 7        | 7.56          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 7        | 7.56          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD21 | 15       | 7.56          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD22 | 15       | 7.56          |
| (1,791)  | 1:A:3:PRO:HB2  | 1:A:18:LEU:HD23 | 15       | 7.56          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 16       | 7.56          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB2   | 9        | 7.56          |
| (1,715)  | 1:A:2:GLY:HA3  | 1:A:9:PRO:HB3   | 9        | 7.56          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 15       | 7.56          |
| (1,4545) | 1:A:25:TYR:HB3 | 1:A:28:SER:HB3  | 17       | 7.56          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG2  | 9        | 7.56          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG3  | 9        | 7.56          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2  | 5        | 7.56          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3  | 5        | 7.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4453) | 1:A:24:GLY:H   | 1:A:31:LYS:HB3 | 16       | 7.56          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2 | 7        | 7.56          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2 | 7        | 7.56          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3 | 7        | 7.56          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3 | 7        | 7.56          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 10       | 7.56          |
| (1,4419) | 1:A:23:TYR:HE2 | 1:A:28:SER:H   | 10       | 7.56          |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H   | 20       | 7.56          |
| (1,4227) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HB2 | 13       | 7.56          |
| (1,4227) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HB3 | 13       | 7.56          |
| (1,4206) | 1:A:22:GLN:HG2 | 1:A:34:ALA:H   | 19       | 7.56          |
| (1,4164) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HB3 | 5        | 7.56          |
| (1,4164) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HB3 | 7        | 7.56          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2 | 6        | 7.56          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3 | 6        | 7.56          |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE1 | 11       | 7.56          |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE2 | 11       | 7.56          |
| (1,3926) | 1:A:20:CYS:H   | 1:A:25:TYR:HE1 | 13       | 7.56          |
| (1,3926) | 1:A:20:CYS:H   | 1:A:25:TYR:HE2 | 13       | 7.56          |
| (1,3904) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HG3 | 12       | 7.56          |
| (1,3872) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HD1 | 15       | 7.56          |
| (1,3872) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HD2 | 15       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 9        | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 9        | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 18       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 18       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 19       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 19       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1 | 20       | 7.56          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2 | 20       | 7.56          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA  | 20       | 7.56          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD2 | 16       | 7.56          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD3 | 16       | 7.56          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD2 | 18       | 7.56          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD3 | 18       | 7.56          |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG  | 12       | 7.56          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1 | 19       | 7.56          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2 | 19       | 7.56          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 13       | 7.56          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB2 | 11       | 7.56          |
| (1,3434) | 1:A:15:ARG:HE  | 1:A:28:SER:HB3 | 11       | 7.56          |
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2 | 10       | 7.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H   | 8        | 7.56          |
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H   | 9        | 7.56          |
| (1,3223) | 1:A:14:CYS:HB2 | 1:A:34:ALA:HA  | 19       | 7.56          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H   | 2        | 7.56          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H   | 5        | 7.56          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 18       | 7.56          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3 | 20       | 7.56          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1 | 18       | 7.56          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2 | 18       | 7.56          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 9        | 7.56          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 9        | 7.56          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H   | 2        | 7.56          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H   | 10       | 7.56          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG  | 2        | 7.56          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG  | 3        | 7.56          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG  | 10       | 7.56          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD1 | 17       | 7.56          |
| (1,2334) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HD2 | 17       | 7.56          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 11       | 7.56          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H   | 4        | 7.56          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 4        | 7.56          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 4        | 7.56          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD1 | 17       | 7.56          |
| (1,2074) | 1:A:8:GLY:H    | 1:A:32:TYR:HD2 | 17       | 7.56          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 8        | 7.56          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 13       | 7.56          |
| (1,1968) | 1:A:7:CYS:H    | 1:A:32:TYR:HA  | 16       | 7.56          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 12       | 7.56          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 12       | 7.56          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 17       | 7.56          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 16       | 7.56          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 16       | 7.56          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB2 | 19       | 7.56          |
| (1,1540) | 1:A:6:GLN:H    | 1:A:32:TYR:HB3 | 19       | 7.56          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 4        | 7.56          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 3        | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 7        | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 7        | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 8        | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 8        | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 11       | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 11       | 7.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2 | 12       | 7.56          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3 | 12       | 7.56          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 9        | 7.56          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 15       | 7.55          |
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 5        | 7.55          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 13       | 7.55          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 13       | 7.55          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 18       | 7.55          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 19       | 7.55          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H   | 20       | 7.55          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1 | 12       | 7.55          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2 | 12       | 7.55          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3 | 12       | 7.55          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 3        | 7.55          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA2 | 10       | 7.55          |
| (1,4610) | 1:A:26:CYS:H   | 1:A:29:GLY:HA3 | 10       | 7.55          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 5        | 7.55          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 5        | 7.55          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 5        | 7.55          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 5        | 7.55          |
| (1,4551) | 1:A:25:TYR:HB3 | 1:A:32:TYR:H   | 5        | 7.55          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 12       | 7.55          |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 12       | 7.55          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG2 | 2        | 7.55          |
| (1,4472) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HG3 | 2        | 7.55          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 12       | 7.55          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 12       | 7.55          |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H   | 6        | 7.55          |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H   | 6        | 7.55          |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H   | 9        | 7.55          |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H   | 9        | 7.55          |
| (1,4368) | 1:A:23:TYR:HA  | 1:A:31:LYS:HB3 | 12       | 7.55          |
| (1,4359) | 1:A:23:TYR:H   | 1:A:35:HIS:HE1 | 1        | 7.55          |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H   | 14       | 7.55          |
| (1,4192) | 1:A:22:GLN:HG2 | 1:A:32:TYR:H   | 8        | 7.55          |
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA  | 7        | 7.55          |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG2 | 11       | 7.55          |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG3 | 11       | 7.55          |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H   | 20       | 7.55          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2 | 3        | 7.55          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3 | 3        | 7.55          |
| (1,3954) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HG3 | 3        | 7.55          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ1  | 7        | 7.55          |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ2  | 7        | 7.55          |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ3  | 7        | 7.55          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE1  | 1        | 7.55          |
| (1,3873) | 1:A:19:CYS:HB2 | 1:A:23:TYR:HE2  | 1        | 7.55          |
| (1,3869) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HB3  | 14       | 7.55          |
| (1,3842) | 1:A:19:CYS:H   | 1:A:31:LYS:HD2  | 14       | 7.55          |
| (1,3842) | 1:A:19:CYS:H   | 1:A:31:LYS:HD3  | 14       | 7.55          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1  | 16       | 7.55          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2  | 16       | 7.55          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA   | 18       | 7.55          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA   | 19       | 7.55          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD2  | 15       | 7.55          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD3  | 15       | 7.55          |
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H    | 5        | 7.55          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2  | 15       | 7.55          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3  | 15       | 7.55          |
| (1,3593) | 1:A:17:GLY:HA2 | 1:A:20:CYS:HB2  | 9        | 7.55          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD1  | 5        | 7.55          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD2  | 5        | 7.55          |
| (1,3408) | 1:A:15:ARG:HD2 | 1:A:29:GLY:H    | 15       | 7.55          |
| (1,3408) | 1:A:15:ARG:HD3 | 1:A:29:GLY:H    | 15       | 7.55          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H    | 14       | 7.55          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA   | 19       | 7.55          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 8        | 7.55          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1  | 19       | 7.55          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2  | 19       | 7.55          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 1        | 7.55          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 5        | 7.55          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 14       | 7.55          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 15       | 7.55          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 15       | 7.55          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD11 | 17       | 7.55          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD12 | 17       | 7.55          |
| (1,2735) | 1:A:11:TRP:HD1 | 1:A:18:LEU:HD13 | 17       | 7.55          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 3        | 7.55          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 4        | 7.55          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 5        | 7.55          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 6        | 7.55          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 5        | 7.55          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 12       | 7.55          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 14       | 7.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H   | 17       | 7.55          |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2 | 13       | 7.55          |
| (1,2103) | 1:A:8:GLY:HA2   | 1:A:35:HIS:HE1 | 1        | 7.55          |
| (1,1949) | 1:A:7:CYS:H     | 1:A:22:GLN:HG2 | 6        | 7.55          |
| (1,1869) | 1:A:6:GLN:HE22  | 1:A:10:GLY:H   | 17       | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2  | 2        | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3  | 2        | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2  | 6        | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3  | 6        | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2  | 10       | 7.55          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3  | 10       | 7.55          |
| (1,1714) | 1:A:6:GLN:HG2   | 1:A:21:SER:HB3 | 3        | 7.55          |
| (1,1714) | 1:A:6:GLN:HG2   | 1:A:21:SER:HB3 | 14       | 7.55          |
| (1,1586) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HB3  | 9        | 7.55          |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3 | 3        | 7.55          |
| (1,1403) | 1:A:5:GLY:H     | 1:A:10:GLY:HA2 | 16       | 7.55          |
| (1,1403) | 1:A:5:GLY:H     | 1:A:10:GLY:HA3 | 16       | 7.55          |
| (1,1319) | 1:A:4:ASN:HD22  | 1:A:7:CYS:H    | 10       | 7.55          |
| (1,1282) | 1:A:4:ASN:HD21  | 1:A:23:TYR:HB3 | 3        | 7.55          |
| (1,1225) | 1:A:4:ASN:HB3   | 1:A:27:GLY:H   | 17       | 7.55          |
| (1,1189) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HA  | 16       | 7.55          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 14       | 7.54          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 11       | 7.54          |
| (1,776)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HA  | 13       | 7.54          |
| (1,722)  | 1:A:2:GLY:HA3   | 1:A:14:CYS:HB3 | 8        | 7.54          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 10       | 7.54          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 18       | 7.54          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 18       | 7.54          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 6        | 7.54          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 7        | 7.54          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 10       | 7.54          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 10       | 7.54          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 2        | 7.54          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 2        | 7.54          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 5        | 7.54          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 5        | 7.54          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 4        | 7.54          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 4        | 7.54          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 4        | 7.54          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 4        | 7.54          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 11       | 7.54          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 1        | 7.54          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 1        | 7.54          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 17       | 7.54          |
| (1,4234) | 1:A:22:GLN:HB3  | 1:A:30:PRO:HA  | 16       | 7.54          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB2 | 12       | 7.54          |
| (1,4227) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HB3 | 12       | 7.54          |
| (1,4190) | 1:A:22:GLN:HG2  | 1:A:29:GLY:HA3 | 16       | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 1        | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 1        | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 9        | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 9        | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 14       | 7.54          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 14       | 7.54          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 18       | 7.54          |
| (1,4116) | 1:A:22:GLN:H    | 1:A:29:GLY:H   | 19       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 5        | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 5        | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 16       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 16       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 18       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 18       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 19       | 7.54          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 19       | 7.54          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 16       | 7.54          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 16       | 7.54          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 7        | 7.54          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 7        | 7.54          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 5        | 7.54          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 5        | 7.54          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 16       | 7.54          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 16       | 7.54          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 8        | 7.54          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 8        | 7.54          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 8        | 7.54          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 8        | 7.54          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 8        | 7.54          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 8        | 7.54          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 12       | 7.54          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 12       | 7.54          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 12       | 7.54          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 11       | 7.54          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 16       | 7.54          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 2        | 7.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H   | 4        | 7.54          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1 | 20       | 7.54          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2 | 20       | 7.54          |
| (1,3637) | 1:A:17:GLY:HA3 | 1:A:32:TYR:H   | 1        | 7.54          |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H   | 6        | 7.54          |
| (1,3511) | 1:A:16:GLY:HA2 | 1:A:28:SER:H   | 11       | 7.54          |
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H   | 17       | 7.54          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 17       | 7.54          |
| (1,3397) | 1:A:15:ARG:HD2 | 1:A:20:CYS:H   | 4        | 7.54          |
| (1,3397) | 1:A:15:ARG:HD3 | 1:A:20:CYS:H   | 4        | 7.54          |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H   | 4        | 7.54          |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H   | 4        | 7.54          |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H   | 18       | 7.54          |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H   | 18       | 7.54          |
| (1,3214) | 1:A:14:CYS:HB2 | 1:A:30:PRO:HA  | 16       | 7.54          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE1 | 7        | 7.54          |
| (1,3190) | 1:A:14:CYS:H   | 1:A:32:TYR:HE2 | 7        | 7.54          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1 | 4        | 7.54          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2 | 4        | 7.54          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H   | 1        | 7.54          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE  | 15       | 7.54          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H   | 6        | 7.54          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H   | 8        | 7.54          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2 | 12       | 7.54          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3 | 12       | 7.54          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 6        | 7.54          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG  | 8        | 7.54          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG  | 20       | 7.54          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 19       | 7.54          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 19       | 7.54          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2 | 13       | 7.54          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3 | 13       | 7.54          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2 | 3        | 7.54          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3 | 3        | 7.54          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2 | 10       | 7.54          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3 | 10       | 7.54          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 1        | 7.54          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 1        | 7.54          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 1        | 7.54          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 1        | 7.54          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 4        | 7.54          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 4        | 7.54          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE1  | 8        | 7.54          |
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE2  | 8        | 7.54          |
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE1  | 17       | 7.54          |
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE2  | 17       | 7.54          |
| (1,1872) | 1:A:6:GLN:HE22  | 1:A:12:GLY:HA3  | 13       | 7.54          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 5        | 7.54          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 5        | 7.54          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD11 | 13       | 7.54          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD12 | 13       | 7.54          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD13 | 13       | 7.54          |
| (1,1771) | 1:A:6:GLN:HG3   | 1:A:27:GLY:HA2  | 10       | 7.54          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD2  | 5        | 7.54          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD3  | 5        | 7.54          |
| (1,1487) | 1:A:5:GLY:HA3   | 1:A:22:GLN:H    | 10       | 7.54          |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H    | 17       | 7.54          |
| (1,1142) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HB3  | 20       | 7.54          |
| (1,867)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:H    | 11       | 7.53          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2  | 7        | 7.53          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3  | 7        | 7.53          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1  | 3        | 7.53          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2  | 3        | 7.53          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1  | 3        | 7.53          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2  | 3        | 7.53          |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE   | 17       | 7.53          |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 13       | 7.53          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3  | 2        | 7.53          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2  | 14       | 7.53          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3  | 14       | 7.53          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2  | 16       | 7.53          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3  | 16       | 7.53          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2  | 16       | 7.53          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3  | 16       | 7.53          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H    | 7        | 7.53          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3  | 10       | 7.53          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3  | 13       | 7.53          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1  | 19       | 7.53          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 17       | 7.53          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 17       | 7.53          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2  | 19       | 7.53          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3  | 19       | 7.53          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3  | 18       | 7.53          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 4        | 7.53          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4239) | 1:A:22:GLN:HB3 | 1:A:33:CYS:HA   | 14       | 7.53          |
| (1,4225) | 1:A:22:GLN:HB3 | 1:A:26:CYS:H    | 15       | 7.53          |
| (1,4192) | 1:A:22:GLN:HG2 | 1:A:32:TYR:H    | 18       | 7.53          |
| (1,4116) | 1:A:22:GLN:H   | 1:A:29:GLY:H    | 16       | 7.53          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2  | 6        | 7.53          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3  | 6        | 7.53          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2  | 20       | 7.53          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3  | 20       | 7.53          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA   | 7        | 7.53          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE21 | 16       | 7.53          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE22 | 16       | 7.53          |
| (1,3842) | 1:A:19:CYS:H   | 1:A:31:LYS:HD2  | 10       | 7.53          |
| (1,3842) | 1:A:19:CYS:H   | 1:A:31:LYS:HD3  | 10       | 7.53          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE1  | 7        | 7.53          |
| (1,3831) | 1:A:19:CYS:H   | 1:A:25:TYR:HE2  | 7        | 7.53          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE1  | 14       | 7.53          |
| (1,3826) | 1:A:19:CYS:H   | 1:A:23:TYR:HE2  | 14       | 7.53          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA   | 9        | 7.53          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1  | 15       | 7.53          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2  | 15       | 7.53          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE1  | 9        | 7.53          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE2  | 9        | 7.53          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H    | 14       | 7.53          |
| (1,3397) | 1:A:15:ARG:HD2 | 1:A:20:CYS:H    | 2        | 7.53          |
| (1,3397) | 1:A:15:ARG:HD3 | 1:A:20:CYS:H    | 2        | 7.53          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3  | 9        | 7.53          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3  | 9        | 7.53          |
| (1,3363) | 1:A:15:ARG:HG2 | 1:A:21:SER:HB3  | 11       | 7.53          |
| (1,3363) | 1:A:15:ARG:HG3 | 1:A:21:SER:HB3  | 11       | 7.53          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1  | 16       | 7.53          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2  | 16       | 7.53          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H    | 19       | 7.53          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 10       | 7.53          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 11       | 7.53          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD1  | 2        | 7.53          |
| (1,3166) | 1:A:13:GLY:HA3 | 1:A:32:TYR:HD2  | 2        | 7.53          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD1  | 14       | 7.53          |
| (1,3160) | 1:A:13:GLY:HA3 | 1:A:25:TYR:HD2  | 14       | 7.53          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 15       | 7.53          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 8        | 7.53          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 8        | 7.53          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 12       | 7.53          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 1        | 7.53          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 1        | 7.53          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG2  | 11       | 7.53          |
| (1,2783) | 1:A:11:TRP:HE3 | 1:A:15:ARG:HG3  | 11       | 7.53          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 6        | 7.53          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 6        | 7.53          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 9        | 7.53          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 18       | 7.53          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 19       | 7.53          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H    | 1        | 7.53          |
| (1,2220) | 1:A:9:PRO:HB2  | 1:A:24:GLY:H    | 17       | 7.53          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 18       | 7.53          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 18       | 7.53          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 19       | 7.53          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 19       | 7.53          |
| (1,2114) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG2  | 17       | 7.53          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 5        | 7.53          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 8        | 7.53          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 12       | 7.53          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 15       | 7.53          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 15       | 7.53          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 15       | 7.53          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 15       | 7.53          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 18       | 7.53          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 18       | 7.53          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 9        | 7.53          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 11       | 7.53          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 13       | 7.53          |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 13       | 7.53          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 1        | 7.53          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 17       | 7.53          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 20       | 7.53          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 5        | 7.52          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 11       | 7.52          |
| (1,756)  | 1:A:3:PRO:HA   | 1:A:18:LEU:HB3  | 7        | 7.52          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3  | 10       | 7.52          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 16       | 7.52          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 11       | 7.52          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2  | 4        | 7.52          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3  | 4        | 7.52          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2  | 9        | 7.52          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3  | 9        | 7.52          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 14       | 7.52          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 12       | 7.52          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 12       | 7.52          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA2 | 10       | 7.52          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA2 | 10       | 7.52          |
| (1,4563) | 1:A:25:TYR:HD1  | 1:A:29:GLY:HA3 | 10       | 7.52          |
| (1,4563) | 1:A:25:TYR:HD2  | 1:A:29:GLY:HA3 | 10       | 7.52          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 6        | 7.52          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 18       | 7.52          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 18       | 7.52          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 13       | 7.52          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 10       | 7.52          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 3        | 7.52          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 10       | 7.52          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 10       | 7.52          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 20       | 7.52          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG2 | 20       | 7.52          |
| (1,3970) | 1:A:20:CYS:HB2  | 1:A:31:LYS:HG3 | 20       | 7.52          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 14       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 18       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 18       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 19       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 19       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 20       | 7.52          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 20       | 7.52          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 13       | 7.52          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 13       | 7.52          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 13       | 7.52          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 3        | 7.52          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 3        | 7.52          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 17       | 7.52          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 17       | 7.52          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 16       | 7.52          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 16       | 7.52          |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 9        | 7.52          |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 9        | 7.52          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 7        | 7.52          |
| (1,3256) | 1:A:14:CYS:HB3  | 1:A:35:HIS:H   | 11       | 7.52          |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H   | 11       | 7.52          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 7        | 7.52          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 7        | 7.52          |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3 | 13       | 7.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H   | 18       | 7.52          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H   | 20       | 7.52          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2 | 11       | 7.52          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3 | 11       | 7.52          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 3        | 7.52          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 4        | 7.52          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 14       | 7.52          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 14       | 7.52          |
| (1,2303) | 1:A:9:PRO:HG2  | 1:A:13:GLY:H   | 13       | 7.52          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2 | 7        | 7.52          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3 | 7        | 7.52          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA  | 18       | 7.52          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA  | 19       | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 3        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 3        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 6        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 6        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 9        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 9        | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 19       | 7.52          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 19       | 7.52          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2 | 7        | 7.52          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3 | 7        | 7.52          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 9        | 7.52          |
| (1,1747) | 1:A:6:GLN:HG3  | 1:A:13:GLY:H   | 17       | 7.52          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 14       | 7.52          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 14       | 7.52          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H    | 5        | 7.52          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1 | 14       | 7.52          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 11       | 7.52          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 11       | 7.52          |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 20       | 7.52          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 2        | 7.51          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 2        | 7.51          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 1        | 7.51          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 3        | 7.51          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 9        | 7.51          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 9        | 7.51          |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 2        | 7.51          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 2        | 7.51          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 2        | 7.51          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 2        | 7.51          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,531)  | 1:A:1:SER:HA   | 1:A:27:GLY:H   | 17       | 7.51          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 17       | 7.51          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 17       | 7.51          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 4        | 7.51          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 12       | 7.51          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 13       | 7.51          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 5        | 7.51          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 5        | 7.51          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 5        | 7.51          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 12       | 7.51          |
| (1,4545) | 1:A:25:TYR:HB3 | 1:A:28:SER:HB3 | 1        | 7.51          |
| (1,4545) | 1:A:25:TYR:HB3 | 1:A:28:SER:HB3 | 11       | 7.51          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG2 | 17       | 7.51          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG3 | 17       | 7.51          |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD2 | 8        | 7.51          |
| (1,4495) | 1:A:24:GLY:HA3 | 1:A:31:LYS:HD3 | 8        | 7.51          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2 | 13       | 7.51          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2 | 13       | 7.51          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3 | 13       | 7.51          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3 | 13       | 7.51          |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3 | 11       | 7.51          |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3 | 11       | 7.51          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA2 | 15       | 7.51          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA3 | 15       | 7.51          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA2 | 16       | 7.51          |
| (1,4233) | 1:A:22:GLN:HB3 | 1:A:29:GLY:HA3 | 16       | 7.51          |
| (1,4225) | 1:A:22:GLN:HB3 | 1:A:26:CYS:H   | 10       | 7.51          |
| (1,4207) | 1:A:22:GLN:HB2 | 1:A:34:ALA:H   | 10       | 7.51          |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG2 | 12       | 7.51          |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG3 | 12       | 7.51          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 3        | 7.51          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 6        | 7.51          |
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 6        | 7.51          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2 | 5        | 7.51          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3 | 5        | 7.51          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 16       | 7.51          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 18       | 7.51          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 19       | 7.51          |
| (1,3915) | 1:A:20:CYS:H   | 1:A:22:GLN:HG3 | 7        | 7.51          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA  | 10       | 7.51          |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG  | 18       | 7.51          |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG  | 19       | 7.51          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1  | 4        | 7.51          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2  | 4        | 7.51          |
| (1,3637) | 1:A:17:GLY:HA3 | 1:A:32:TYR:H    | 11       | 7.51          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H    | 15       | 7.51          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H    | 1        | 7.51          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG   | 18       | 7.51          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H    | 9        | 7.51          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 16       | 7.51          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 7        | 7.51          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 7        | 7.51          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 7        | 7.51          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 9        | 7.51          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 16       | 7.51          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 19       | 7.51          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 3        | 7.51          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 3        | 7.51          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 7        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 3        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 4        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 4        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 4        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 4        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 4        | 7.51          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 4        | 7.51          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 8        | 7.51          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 8        | 7.51          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 6        | 7.51          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 7        | 7.51          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 20       | 7.51          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 4        | 7.51          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 14       | 7.51          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 17       | 7.51          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 1        | 7.51          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 6        | 7.51          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA   | 17       | 7.51          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H    | 4        | 7.5           |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H    | 13       | 7.5           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 2        | 7.5           |
| (1,640)  | 1:A:2:GLY:H    | 1:A:24:GLY:H   | 6        | 7.5           |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG  | 5        | 7.5           |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1 | 7        | 7.5           |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1 | 7        | 7.5           |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H   | 8        | 7.5           |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 1        | 7.5           |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 1        | 7.5           |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2 | 1        | 7.5           |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3 | 1        | 7.5           |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 9        | 7.5           |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 18       | 7.5           |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 18       | 7.5           |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 18       | 7.5           |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 18       | 7.5           |
| (1,4551) | 1:A:25:TYR:HB3 | 1:A:32:TYR:H   | 13       | 7.5           |
| (1,4453) | 1:A:24:GLY:H   | 1:A:31:LYS:HB3 | 11       | 7.5           |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 6        | 7.5           |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 6        | 7.5           |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 19       | 7.5           |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 19       | 7.5           |
| (1,4411) | 1:A:23:TYR:HD1 | 1:A:34:ALA:H   | 8        | 7.5           |
| (1,4411) | 1:A:23:TYR:HD2 | 1:A:34:ALA:H   | 8        | 7.5           |
| (1,4182) | 1:A:22:GLN:HG2 | 1:A:28:SER:H   | 16       | 7.5           |
| (1,4178) | 1:A:22:GLN:HG2 | 1:A:27:GLY:H   | 1        | 7.5           |
| (1,4164) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HB3 | 13       | 7.5           |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG2 | 13       | 7.5           |
| (1,4119) | 1:A:22:GLN:H   | 1:A:30:PRO:HG3 | 13       | 7.5           |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2 | 17       | 7.5           |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3 | 17       | 7.5           |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2 | 12       | 7.5           |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3 | 12       | 7.5           |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2 | 14       | 7.5           |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3 | 14       | 7.5           |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 11       | 7.5           |
| (1,3937) | 1:A:20:CYS:H   | 1:A:31:LYS:HB3 | 10       | 7.5           |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB2 | 12       | 7.5           |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB3 | 12       | 7.5           |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB2 | 14       | 7.5           |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB3 | 14       | 7.5           |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ1 | 12       | 7.5           |
| (1,3905) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HZ2 | 12       | 7.5           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 12       | 7.5           |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 12       | 7.5           |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 12       | 7.5           |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1  | 2        | 7.5           |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3  | 2        | 7.5           |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3  | 2        | 7.5           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 10       | 7.5           |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 10       | 7.5           |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG   | 7        | 7.5           |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG   | 8        | 7.5           |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 17       | 7.5           |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 6        | 7.5           |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 6        | 7.5           |
| (1,3700) | 1:A:18:LEU:HB2  | 1:A:34:ALA:H    | 14       | 7.5           |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 7        | 7.5           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB1  | 10       | 7.5           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB2  | 10       | 7.5           |
| (1,3546) | 1:A:16:GLY:HA3  | 1:A:34:ALA:HB3  | 10       | 7.5           |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 5        | 7.5           |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG   | 19       | 7.5           |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H    | 1        | 7.5           |
| (1,3255) | 1:A:14:CYS:HB3  | 1:A:34:ALA:H    | 9        | 7.5           |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H    | 7        | 7.5           |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3  | 18       | 7.5           |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 9        | 7.5           |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 20       | 7.5           |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 11       | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2  | 4        | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3  | 4        | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2  | 7        | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3  | 7        | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2  | 16       | 7.5           |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3  | 16       | 7.5           |
| (1,2650) | 1:A:11:TRP:HB2  | 1:A:21:SER:HG   | 1        | 7.5           |
| (1,2650) | 1:A:11:TRP:HB2  | 1:A:21:SER:HG   | 15       | 7.5           |
| (1,2650) | 1:A:11:TRP:HB2  | 1:A:21:SER:HG   | 16       | 7.5           |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H    | 7        | 7.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 13       | 7.5           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 12       | 7.5           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 12       | 7.5           |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 3        | 7.5           |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 13       | 7.5           |
| (1,1976) | 1:A:7:CYS:HA   | 1:A:22:GLN:H    | 17       | 7.5           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 7        | 7.5           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 7        | 7.5           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 15       | 7.5           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 15       | 7.5           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 9        | 7.5           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 9        | 7.5           |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 12       | 7.5           |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 13       | 7.5           |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA2  | 9        | 7.5           |
| (1,1403) | 1:A:5:GLY:H    | 1:A:10:GLY:HA3  | 9        | 7.5           |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 2        | 7.5           |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H    | 6        | 7.49          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H    | 6        | 7.49          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 17       | 7.49          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2  | 6        | 7.49          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3  | 6        | 7.49          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2  | 14       | 7.49          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3  | 14       | 7.49          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 19       | 7.49          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 19       | 7.49          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 20       | 7.49          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 20       | 7.49          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 20       | 7.49          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 20       | 7.49          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H    | 3        | 7.49          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H    | 6        | 7.49          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H    | 17       | 7.49          |
| (1,4661) | 1:A:26:CYS:HB2 | 1:A:32:TYR:H    | 14       | 7.49          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3  | 1        | 7.49          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB2  | 19       | 7.49          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB2  | 19       | 7.49          |
| (1,4604) | 1:A:25:TYR:HE1 | 1:A:35:HIS:HB3  | 19       | 7.49          |
| (1,4604) | 1:A:25:TYR:HE2 | 1:A:35:HIS:HB3  | 19       | 7.49          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2  | 10       | 7.49          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2  | 10       | 7.49          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3  | 10       | 7.49          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 10       | 7.49          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 1        | 7.49          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 2        | 7.49          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 9        | 7.49          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 11       | 7.49          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 5        | 7.49          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 5        | 7.49          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 5        | 7.49          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 5        | 7.49          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 5        | 7.49          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 5        | 7.49          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 3        | 7.49          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 3        | 7.49          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 17       | 7.49          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 17       | 7.49          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 19       | 7.49          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 19       | 7.49          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 17       | 7.49          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 17       | 7.49          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 17       | 7.49          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 3        | 7.49          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 20       | 7.49          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 14       | 7.49          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 5        | 7.49          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 8        | 7.49          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 8        | 7.49          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 15       | 7.49          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 15       | 7.49          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 9        | 7.49          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 1        | 7.49          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 4        | 7.49          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 10       | 7.49          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 10       | 7.49          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 3        | 7.49          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 3        | 7.49          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 3        | 7.49          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 6        | 7.49          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 10       | 7.49          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 10       | 7.49          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 10       | 7.49          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 6        | 7.49          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 20       | 7.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H    | 18       | 7.49          |
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H    | 19       | 7.49          |
| (1,3720) | 1:A:18:LEU:HB3 | 1:A:31:LYS:H    | 20       | 7.49          |
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H    | 9        | 7.49          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE1  | 8        | 7.49          |
| (1,3639) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HE2  | 8        | 7.49          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H    | 8        | 7.49          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H    | 9        | 7.49          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H    | 14       | 7.49          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H    | 14       | 7.49          |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H    | 2        | 7.49          |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H    | 2        | 7.49          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 1        | 7.49          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG   | 12       | 7.49          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H    | 15       | 7.49          |
| (1,3213) | 1:A:14:CYS:HB2 | 1:A:29:GLY:HA3  | 19       | 7.49          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 11       | 7.49          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 17       | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 8        | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 8        | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 18       | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 18       | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 19       | 7.49          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 19       | 7.49          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 11       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 10       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 10       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 10       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 10       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 10       | 7.49          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 10       | 7.49          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE21 | 19       | 7.49          |
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 19       | 7.49          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 7        | 7.49          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 15       | 7.49          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 16       | 7.49          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 6        | 7.49          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 6        | 7.49          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 18       | 7.49          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 18       | 7.49          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 12       | 7.49          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 12       | 7.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 12       | 7.49          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 12       | 7.49          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 19       | 7.49          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 19       | 7.49          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 3        | 7.49          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 1        | 7.49          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 3        | 7.49          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 4        | 7.49          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 6        | 7.49          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 6        | 7.49          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 12       | 7.49          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 12       | 7.49          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 8        | 7.49          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 12       | 7.49          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 17       | 7.49          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H    | 11       | 7.49          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H    | 3        | 7.49          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H    | 11       | 7.49          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 16       | 7.49          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 18       | 7.49          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H    | 20       | 7.49          |
| (1,776)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HA   | 9        | 7.48          |
| (1,649)  | 1:A:2:GLY:H    | 1:A:27:GLY:H    | 17       | 7.48          |
| (1,632)  | 1:A:2:GLY:H    | 1:A:21:SER:HG   | 10       | 7.48          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 10       | 7.48          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 10       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 13       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 13       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 13       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 13       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 13       | 7.48          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 13       | 7.48          |
| (1,4721) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HE1  | 12       | 7.48          |
| (1,4717) | 1:A:27:GLY:HA3 | 1:A:34:ALA:HA   | 8        | 7.48          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 11       | 7.48          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 11       | 7.48          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H    | 5        | 7.48          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H    | 10       | 7.48          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H    | 1        | 7.48          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H    | 11       | 7.48          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H    | 14       | 7.48          |
| (1,4551) | 1:A:25:TYR:HB3 | 1:A:32:TYR:H    | 14       | 7.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 16       | 7.48          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 18       | 7.48          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 19       | 7.48          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 20       | 7.48          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 7        | 7.48          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 7        | 7.48          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 17       | 7.48          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 17       | 7.48          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 14       | 7.48          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 14       | 7.48          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 16       | 7.48          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 2        | 7.48          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 2        | 7.48          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 11       | 7.48          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 11       | 7.48          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 11       | 7.48          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 14       | 7.48          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 14       | 7.48          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 10       | 7.48          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 10       | 7.48          |
| (1,4255) | 1:A:22:GLN:HG3  | 1:A:27:GLY:HA2 | 1        | 7.48          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 3        | 7.48          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 13       | 7.48          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 2        | 7.48          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 2        | 7.48          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG2 | 4        | 7.48          |
| (1,4119) | 1:A:22:GLN:H    | 1:A:30:PRO:HG3 | 4        | 7.48          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 2        | 7.48          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 2        | 7.48          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 1        | 7.48          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 11       | 7.48          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 13       | 7.48          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 15       | 7.48          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 20       | 7.48          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 5        | 7.48          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 9        | 7.48          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 9        | 7.48          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 2        | 7.48          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 3        | 7.48          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 3        | 7.48          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1 | 10       | 7.48          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2 | 10       | 7.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 2        | 7.48          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 19       | 7.48          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 14       | 7.48          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 20       | 7.48          |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 4        | 7.48          |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 4        | 7.48          |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 4        | 7.48          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 13       | 7.48          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 13       | 7.48          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H   | 16       | 7.48          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 7        | 7.48          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 3        | 7.48          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 3        | 7.48          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 17       | 7.48          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 20       | 7.48          |
| (1,3249) | 1:A:14:CYS:HB3  | 1:A:29:GLY:HA3 | 20       | 7.48          |
| (1,3089) | 1:A:13:GLY:H    | 1:A:17:GLY:H   | 14       | 7.48          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1 | 13       | 7.48          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2 | 13       | 7.48          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2 | 20       | 7.48          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3 | 20       | 7.48          |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3 | 14       | 7.48          |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2 | 3        | 7.48          |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2 | 6        | 7.48          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H   | 12       | 7.48          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H   | 15       | 7.48          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB2 | 11       | 7.48          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB3 | 11       | 7.48          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2  | 3        | 7.48          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3  | 3        | 7.48          |
| (1,1824) | 1:A:6:GLN:HE21  | 1:A:21:SER:HG  | 12       | 7.48          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE1 | 8        | 7.48          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE2 | 8        | 7.48          |
| (1,1518) | 1:A:6:GLN:H     | 1:A:19:CYS:HA  | 12       | 7.48          |
| (1,1319) | 1:A:4:ASN:HD22  | 1:A:7:CYS:H    | 17       | 7.48          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE1 | 6        | 7.48          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE2 | 6        | 7.48          |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 15       | 7.48          |
| (1,1126) | 1:A:4:ASN:HB2   | 1:A:11:TRP:H   | 1        | 7.48          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 1        | 7.47          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 1        | 7.47          |
| (1,867)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:H   | 6        | 7.47          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 12       | 7.47          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 5        | 7.47          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 5        | 7.47          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 6        | 7.47          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 6        | 7.47          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 5        | 7.47          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 8        | 7.47          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 3        | 7.47          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 3        | 7.47          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 6        | 7.47          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 6        | 7.47          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2 | 17       | 7.47          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2 | 17       | 7.47          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3 | 17       | 7.47          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3 | 17       | 7.47          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA2 | 2        | 7.47          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA2 | 2        | 7.47          |
| (1,4563) | 1:A:25:TYR:HD1 | 1:A:29:GLY:HA3 | 2        | 7.47          |
| (1,4563) | 1:A:25:TYR:HD2 | 1:A:29:GLY:HA3 | 2        | 7.47          |
| (1,4551) | 1:A:25:TYR:HB3 | 1:A:32:TYR:H   | 17       | 7.47          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2 | 14       | 7.47          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD3 | 14       | 7.47          |
| (1,4254) | 1:A:22:GLN:HG3 | 1:A:27:GLY:H   | 15       | 7.47          |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1 | 1        | 7.47          |
| (1,4207) | 1:A:22:GLN:HB2 | 1:A:34:ALA:H   | 3        | 7.47          |
| (1,4130) | 1:A:22:GLN:H   | 1:A:35:HIS:H   | 15       | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB1 | 3        | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB2 | 3        | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB3 | 3        | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB1 | 6        | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB2 | 6        | 7.47          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB3 | 6        | 7.47          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 4        | 7.47          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 5        | 7.47          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 18       | 7.47          |
| (1,4095) | 1:A:21:SER:HG  | 1:A:33:CYS:HB2 | 19       | 7.47          |
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 1        | 7.47          |
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 4        | 7.47          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2 | 8        | 7.47          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3 | 8        | 7.47          |
| (1,4009) | 1:A:20:CYS:HB3 | 1:A:35:HIS:H   | 8        | 7.47          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 14       | 7.47          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2  | 7        | 7.47          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2  | 6        | 7.47          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3  | 6        | 7.47          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE1  | 2        | 7.47          |
| (1,3926) | 1:A:20:CYS:H    | 1:A:25:TYR:HE2  | 2        | 7.47          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 19       | 7.47          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 19       | 7.47          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 19       | 7.47          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 13       | 7.47          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 13       | 7.47          |
| (1,3862) | 1:A:19:CYS:HA   | 1:A:31:LYS:HG2  | 20       | 7.47          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2  | 17       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE1  | 14       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HE2  | 14       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE1  | 14       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HE2  | 14       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE1  | 14       | 7.47          |
| (1,3773) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HE2  | 14       | 7.47          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 13       | 7.47          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2  | 17       | 7.47          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3  | 17       | 7.47          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 14       | 7.47          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 7        | 7.47          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 7        | 7.47          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 15       | 7.47          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H    | 20       | 7.47          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 4        | 7.47          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 4        | 7.47          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H    | 3        | 7.47          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H    | 3        | 7.47          |
| (1,3213) | 1:A:14:CYS:HB2  | 1:A:29:GLY:HA3  | 16       | 7.47          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 10       | 7.47          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1  | 11       | 7.47          |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2  | 11       | 7.47          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2  | 13       | 7.47          |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3  | 13       | 7.47          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB2  | 5        | 7.47          |
| (1,2779) | 1:A:11:TRP:HE3  | 1:A:14:CYS:HB3  | 5        | 7.47          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA   | 14       | 7.47          |
| (1,2688) | 1:A:11:TRP:HB3  | 1:A:21:SER:H    | 14       | 7.47          |
| (1,2598) | 1:A:11:TRP:H    | 1:A:26:CYS:HB2  | 4        | 7.47          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H    | 16       | 7.47          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 18       | 7.47          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 19       | 7.47          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 15       | 7.47          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 1        | 7.47          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 2        | 7.47          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 9        | 7.47          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 10       | 7.47          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 14       | 7.47          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1  | 20       | 7.47          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2  | 20       | 7.47          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1  | 20       | 7.47          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2  | 20       | 7.47          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 10       | 7.47          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 10       | 7.47          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 4        | 7.47          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 4        | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 12       | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 12       | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 12       | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 15       | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 15       | 7.47          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 15       | 7.47          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 8        | 7.47          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 9        | 7.47          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 18       | 7.47          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 19       | 7.47          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3  | 20       | 7.47          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 5        | 7.47          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 9        | 7.47          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 9        | 7.47          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 12       | 7.47          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 12       | 7.47          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 16       | 7.47          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 16       | 7.47          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 6        | 7.47          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 11       | 7.47          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 18       | 7.47          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 19       | 7.47          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H    | 14       | 7.46          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2  | 12       | 7.46          |
| (1,579)  | 1:A:1:SER:HB2  | 1:A:28:SER:H    | 10       | 7.46          |
| (1,579)  | 1:A:1:SER:HB3  | 1:A:28:SER:H    | 10       | 7.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4890) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HA  | 14       | 7.46          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 2        | 7.46          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 2        | 7.46          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 10       | 7.46          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 10       | 7.46          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 10       | 7.46          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 15       | 7.46          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 8        | 7.46          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 15       | 7.46          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 18       | 7.46          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 18       | 7.46          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 8        | 7.46          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 8        | 7.46          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 8        | 7.46          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 8        | 7.46          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB2 | 14       | 7.46          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB2 | 14       | 7.46          |
| (1,4397) | 1:A:23:TYR:HD1  | 1:A:28:SER:HB3 | 14       | 7.46          |
| (1,4397) | 1:A:23:TYR:HD2  | 1:A:28:SER:HB3 | 14       | 7.46          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 11       | 7.46          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 5        | 7.46          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 10       | 7.46          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 6        | 7.46          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 4        | 7.46          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 4        | 7.46          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 12       | 7.46          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 17       | 7.46          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 2        | 7.46          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 7        | 7.46          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 11       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 1        | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 1        | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 11       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 11       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 15       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 15       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 17       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 17       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 18       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 18       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 19       | 7.46          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 19       | 7.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD2  | 20       | 7.46          |
| (1,4032) | 1:A:21:SER:H   | 1:A:30:PRO:HD3  | 20       | 7.46          |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE1  | 13       | 7.46          |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE2  | 13       | 7.46          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 9        | 7.46          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 9        | 7.46          |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB2  | 4        | 7.46          |
| (1,3933) | 1:A:20:CYS:H   | 1:A:30:PRO:HB3  | 4        | 7.46          |
| (1,3915) | 1:A:20:CYS:H   | 1:A:22:GLN:HG3  | 11       | 7.46          |
| (1,3752) | 1:A:18:LEU:HG  | 1:A:32:TYR:HA   | 11       | 7.46          |
| (1,3731) | 1:A:18:LEU:HG  | 1:A:21:SER:HG   | 9        | 7.46          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG   | 9        | 7.46          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 16       | 7.46          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 18       | 7.46          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 19       | 7.46          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 12       | 7.46          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 2        | 7.46          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 2        | 7.46          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 9        | 7.46          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 9        | 7.46          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 7        | 7.46          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 2        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 6        | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 12       | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 12       | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 12       | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 12       | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 12       | 7.46          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 12       | 7.46          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 16       | 7.46          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 18       | 7.46          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 19       | 7.46          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 9        | 7.46          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 9        | 7.46          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 11       | 7.46          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 10       | 7.46          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 10       | 7.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 17       | 7.46          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 17       | 7.46          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 5        | 7.46          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 5        | 7.46          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1 | 16       | 7.46          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2 | 16       | 7.46          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 7        | 7.46          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG  | 13       | 7.46          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2 | 6        | 7.46          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3 | 6        | 7.46          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 7        | 7.46          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 13       | 7.46          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 16       | 7.46          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 2        | 7.46          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 10       | 7.46          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 2        | 7.46          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 5        | 7.46          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 10       | 7.46          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 8        | 7.46          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 8        | 7.46          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 12       | 7.46          |
| (1,1152) | 1:A:4:ASN:HB2  | 1:A:23:TYR:H   | 4        | 7.46          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 13       | 7.46          |
| (1,1115) | 1:A:4:ASN:HA   | 1:A:21:SER:H   | 19       | 7.46          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 5        | 7.45          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 5        | 7.45          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 9        | 7.45          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 15       | 7.45          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE  | 7        | 7.45          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 4        | 7.45          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 4        | 7.45          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 4        | 7.45          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 4        | 7.45          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 8        | 7.45          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 20       | 7.45          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 7        | 7.45          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 7        | 7.45          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 5        | 7.45          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 5        | 7.45          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3 | 15       | 7.45          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 3        | 7.45          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 6        | 7.45          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 17       | 7.45          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 12       | 7.45          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 15       | 7.45          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 19       | 7.45          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 19       | 7.45          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 11       | 7.45          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 20       | 7.45          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 20       | 7.45          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 10       | 7.45          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 16       | 7.45          |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 16       | 7.45          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 6        | 7.45          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1 | 5        | 7.45          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 9        | 7.45          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 2        | 7.45          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 9        | 7.45          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 16       | 7.45          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 3        | 7.45          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 3        | 7.45          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 13       | 7.45          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 13       | 7.45          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 13       | 7.45          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2 | 16       | 7.45          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3 | 16       | 7.45          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 13       | 7.45          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ1 | 6        | 7.45          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ2 | 6        | 7.45          |
| (1,3939) | 1:A:20:CYS:H    | 1:A:31:LYS:HZ3 | 6        | 7.45          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 2        | 7.45          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 2        | 7.45          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 8        | 7.45          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 8        | 7.45          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 15       | 7.45          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 15       | 7.45          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 15       | 7.45          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 17       | 7.45          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 17       | 7.45          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 17       | 7.45          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 4        | 7.45          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 8        | 7.45          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 7        | 7.45          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 7        | 7.45          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H    | 15       | 7.45          |
| (1,3387) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HA   | 2        | 7.45          |
| (1,3387) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HA   | 2        | 7.45          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H    | 6        | 7.45          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H    | 11       | 7.45          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 11       | 7.45          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 13       | 7.45          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1  | 7        | 7.45          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2  | 7        | 7.45          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H    | 12       | 7.45          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3  | 18       | 7.45          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 17       | 7.45          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 15       | 7.45          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 15       | 7.45          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 15       | 7.45          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 10       | 7.45          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 10       | 7.45          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 1        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 2        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 2        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 2        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 2        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 2        | 7.45          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 2        | 7.45          |
| (1,2197) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ3  | 13       | 7.45          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 6        | 7.45          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 14       | 7.45          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 15       | 7.45          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 5        | 7.45          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 5        | 7.45          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 11       | 7.45          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 11       | 7.45          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 18       | 7.45          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 18       | 7.45          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 10       | 7.45          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1  | 3        | 7.45          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1  | 6        | 7.45          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1  | 14       | 7.45          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 13       | 7.45          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 16       | 7.45          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 14       | 7.45          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA   | 11       | 7.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1115) | 1:A:4:ASN:HA    | 1:A:21:SER:H    | 7        | 7.45          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H    | 14       | 7.44          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H    | 14       | 7.44          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2  | 7        | 7.44          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1  | 10       | 7.44          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2  | 10       | 7.44          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1  | 10       | 7.44          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2  | 10       | 7.44          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2  | 7        | 7.44          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3  | 7        | 7.44          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H    | 7        | 7.44          |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H    | 10       | 7.44          |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H    | 12       | 7.44          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H    | 13       | 7.44          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1  | 4        | 7.44          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2  | 4        | 7.44          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3  | 4        | 7.44          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H    | 3        | 7.44          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H    | 6        | 7.44          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H    | 3        | 7.44          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H    | 6        | 7.44          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 16       | 7.44          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 16       | 7.44          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 12       | 7.44          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2  | 8        | 7.44          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2  | 14       | 7.44          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H    | 17       | 7.44          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2  | 2        | 7.44          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3  | 2        | 7.44          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD2  | 4        | 7.44          |
| (1,4032) | 1:A:21:SER:H    | 1:A:30:PRO:HD3  | 4        | 7.44          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2  | 5        | 7.44          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3  | 5        | 7.44          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2  | 13       | 7.44          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3  | 13       | 7.44          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 11       | 7.44          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 11       | 7.44          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE21 | 15       | 7.44          |
| (1,3823) | 1:A:19:CYS:H    | 1:A:22:GLN:HE22 | 15       | 7.44          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG   | 5        | 7.44          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 8        | 7.44          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 8        | 7.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE1 | 8        | 7.44          |
| (1,3715) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HE2 | 8        | 7.44          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2 | 3        | 7.44          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3 | 3        | 7.44          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2 | 6        | 7.44          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3 | 6        | 7.44          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2 | 8        | 7.44          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3 | 8        | 7.44          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H   | 5        | 7.44          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H   | 5        | 7.44          |
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H   | 10       | 7.44          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 10       | 7.44          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2 | 9        | 7.44          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2 | 9        | 7.44          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3 | 9        | 7.44          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3 | 9        | 7.44          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2 | 12       | 7.44          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2 | 12       | 7.44          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3 | 12       | 7.44          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3 | 12       | 7.44          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 5        | 7.44          |
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H   | 7        | 7.44          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1 | 16       | 7.44          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2 | 16       | 7.44          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 8        | 7.44          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG  | 16       | 7.44          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 18       | 7.44          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 19       | 7.44          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 15       | 7.44          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H   | 7        | 7.44          |
| (1,3152) | 1:A:13:GLY:HA3 | 1:A:21:SER:HG  | 17       | 7.44          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG  | 5        | 7.44          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG  | 6        | 7.44          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 14       | 7.44          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 14       | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 2        | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 3        | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 4        | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 5        | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 6        | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 10       | 7.44          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 17       | 7.44          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 13       | 7.44          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 13       | 7.44          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 9        | 7.44          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 13       | 7.44          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2  | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 5        | 7.44          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 5        | 7.44          |
| (1,2332) | 1:A:9:PRO:HG2  | 1:A:25:TYR:H    | 17       | 7.44          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 2        | 7.44          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 5        | 7.44          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB2  | 3        | 7.44          |
| (1,2086) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HB3  | 3        | 7.44          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 4        | 7.44          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 10       | 7.44          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 10       | 7.44          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 2        | 7.44          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 2        | 7.44          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 1        | 7.44          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 11       | 7.44          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 20       | 7.44          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 2        | 7.44          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 2        | 7.44          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 10       | 7.44          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 10       | 7.44          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2  | 15       | 7.44          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 17       | 7.44          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 13       | 7.44          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 13       | 7.44          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 2        | 7.44          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 7        | 7.44          |
| (1,1282) | 1:A:4:ASN:HD21 | 1:A:23:TYR:HB3  | 4        | 7.44          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE1  | 15       | 7.44          |
| (1,1219) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HE2  | 15       | 7.44          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 3        | 7.44          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 9        | 7.44          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 11       | 7.44          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3  | 8        | 7.44          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H    | 10       | 7.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 10       | 7.43          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 20       | 7.43          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 20       | 7.43          |
| (1,867)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:H   | 2        | 7.43          |
| (1,867)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:H   | 5        | 7.43          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 16       | 7.43          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 20       | 7.43          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 10       | 7.43          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 2        | 7.43          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 10       | 7.43          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 19       | 7.43          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 17       | 7.43          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 3        | 7.43          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 12       | 7.43          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 12       | 7.43          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 8        | 7.43          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 1        | 7.43          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 1        | 7.43          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 16       | 7.43          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 11       | 7.43          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 15       | 7.43          |
| (1,4182) | 1:A:22:GLN:HG2  | 1:A:28:SER:H   | 15       | 7.43          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 11       | 7.43          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 11       | 7.43          |
| (1,4095) | 1:A:21:SER:HG   | 1:A:33:CYS:HB2 | 7        | 7.43          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 15       | 7.43          |
| (1,3935) | 1:A:20:CYS:H    | 1:A:31:LYS:HB2 | 1        | 7.43          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 15       | 7.43          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 15       | 7.43          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 10       | 7.43          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 19       | 7.43          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 13       | 7.43          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 11       | 7.43          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 12       | 7.43          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 5        | 7.43          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 5        | 7.43          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 3        | 7.43          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 4        | 7.43          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 4        | 7.43          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2 | 10       | 7.43          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB3 | 10       | 7.43          |
| (1,3476) | 1:A:16:GLY:H    | 1:A:28:SER:H   | 7        | 7.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2 | 8        | 7.43          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2 | 8        | 7.43          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3 | 8        | 7.43          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3 | 8        | 7.43          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 13       | 7.43          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 8        | 7.43          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 19       | 7.43          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 20       | 7.43          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H   | 3        | 7.43          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H   | 3        | 7.43          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 15       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 7        | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 8        | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 9        | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 11       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 12       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 14       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 16       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 18       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 19       | 7.43          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 20       | 7.43          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 20       | 7.43          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H   | 11       | 7.43          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD2 | 1        | 7.43          |
| (1,2583) | 1:A:11:TRP:H   | 1:A:15:ARG:HD3 | 1        | 7.43          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE1 | 17       | 7.43          |
| (1,2335) | 1:A:9:PRO:HG2  | 1:A:25:TYR:HE2 | 17       | 7.43          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2 | 20       | 7.43          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 4        | 7.43          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 7        | 7.43          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3 | 1        | 7.43          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 14       | 7.43          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 14       | 7.43          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG  | 8        | 7.43          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 3        | 7.43          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 4        | 7.43          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 6        | 7.43          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 5        | 7.43          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 8        | 7.43          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 9        | 7.43          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 8        | 7.42          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 8        | 7.42          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 19       | 7.42          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 5        | 7.42          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 5        | 7.42          |
| (1,640)  | 1:A:2:GLY:H     | 1:A:24:GLY:H   | 5        | 7.42          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 14       | 7.42          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 14       | 7.42          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 11       | 7.42          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 11       | 7.42          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 11       | 7.42          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 11       | 7.42          |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 12       | 7.42          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 12       | 7.42          |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 18       | 7.42          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 18       | 7.42          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 5        | 7.42          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 5        | 7.42          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 1        | 7.42          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 4        | 7.42          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 9        | 7.42          |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H   | 7        | 7.42          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 6        | 7.42          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 6        | 7.42          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 6        | 7.42          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 9        | 7.42          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 16       | 7.42          |
| (1,4529) | 1:A:25:TYR:H    | 1:A:35:HIS:HE1 | 9        | 7.42          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 14       | 7.42          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 14       | 7.42          |
| (1,4502) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HE1 | 9        | 7.42          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 4        | 7.42          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 4        | 7.42          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 18       | 7.42          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 18       | 7.42          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 18       | 7.42          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 20       | 7.42          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H   | 14       | 7.42          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 2        | 7.42          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 2        | 7.42          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 1        | 7.42          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 1        | 7.42          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 9        | 7.42          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 12       | 7.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 14       | 7.42          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 9        | 7.42          |
| (1,4001) | 1:A:20:CYS:HB3 | 1:A:31:LYS:HA  | 12       | 7.42          |
| (1,3949) | 1:A:20:CYS:H   | 1:A:35:HIS:HE1 | 11       | 7.42          |
| (1,3935) | 1:A:20:CYS:H   | 1:A:31:LYS:HB2 | 15       | 7.42          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2 | 18       | 7.42          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3 | 18       | 7.42          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD2 | 6        | 7.42          |
| (1,3749) | 1:A:18:LEU:HG  | 1:A:30:PRO:HD3 | 6        | 7.42          |
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H   | 2        | 7.42          |
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H   | 4        | 7.42          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1 | 10       | 7.42          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2 | 10       | 7.42          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3 | 10       | 7.42          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2 | 1        | 7.42          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3 | 1        | 7.42          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 18       | 7.42          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 19       | 7.42          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA2 | 20       | 7.42          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA2 | 20       | 7.42          |
| (1,3371) | 1:A:15:ARG:HG2 | 1:A:24:GLY:HA3 | 20       | 7.42          |
| (1,3371) | 1:A:15:ARG:HG3 | 1:A:24:GLY:HA3 | 20       | 7.42          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD1 | 17       | 7.42          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD2 | 17       | 7.42          |
| (1,3256) | 1:A:14:CYS:HB3 | 1:A:35:HIS:H   | 20       | 7.42          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 13       | 7.42          |
| (1,3249) | 1:A:14:CYS:HB3 | 1:A:29:GLY:HA3 | 16       | 7.42          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 1        | 7.42          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 14       | 7.42          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H   | 2        | 7.42          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG  | 8        | 7.42          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 1        | 7.42          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 15       | 7.42          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 8        | 7.42          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 18       | 7.42          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 19       | 7.42          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 5        | 7.42          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 10       | 7.42          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 14       | 7.42          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 14       | 7.42          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H   | 8        | 7.42          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H   | 20       | 7.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 3        | 7.42          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 10       | 7.42          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 20       | 7.42          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 20       | 7.42          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 14       | 7.42          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 7        | 7.42          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 7        | 7.42          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 8        | 7.42          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 9        | 7.42          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 14       | 7.42          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 4        | 7.42          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 2        | 7.42          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 12       | 7.42          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 18       | 7.42          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 10       | 7.41          |
| (1,780)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ2 | 18       | 7.41          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2 | 2        | 7.41          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3 | 2        | 7.41          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2 | 10       | 7.41          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3 | 10       | 7.41          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 15       | 7.41          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 15       | 7.41          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 13       | 7.41          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 8        | 7.41          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 11       | 7.41          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 13       | 7.41          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 15       | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 1        | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 5        | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 8        | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 9        | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 11       | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 13       | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 14       | 7.41          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 15       | 7.41          |
| (1,4545) | 1:A:25:TYR:HB3 | 1:A:28:SER:HB3 | 7        | 7.41          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB2 | 6        | 7.41          |
| (1,4528) | 1:A:25:TYR:H   | 1:A:35:HIS:HB3 | 6        | 7.41          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2 | 14       | 7.41          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3 | 14       | 7.41          |
| (1,4369) | 1:A:23:TYR:HA  | 1:A:31:LYS:HD2 | 14       | 7.41          |
| (1,4369) | 1:A:23:TYR:HA  | 1:A:31:LYS:HD3 | 14       | 7.41          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 14       | 7.41          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 10       | 7.41          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA   | 12       | 7.41          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 8        | 7.41          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H    | 8        | 7.41          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA   | 15       | 7.41          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 4        | 7.41          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 4        | 7.41          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 12       | 7.41          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 7        | 7.41          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 7        | 7.41          |
| (1,3804) | 1:A:18:LEU:HD21 | 1:A:22:GLN:HG2  | 15       | 7.41          |
| (1,3804) | 1:A:18:LEU:HD22 | 1:A:22:GLN:HG2  | 15       | 7.41          |
| (1,3804) | 1:A:18:LEU:HD23 | 1:A:22:GLN:HG2  | 15       | 7.41          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H    | 2        | 7.41          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H    | 2        | 7.41          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H    | 2        | 7.41          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 10       | 7.41          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 9        | 7.41          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 9        | 7.41          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 2        | 7.41          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2  | 2        | 7.41          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H    | 6        | 7.41          |
| (1,3404) | 1:A:15:ARG:HD2  | 1:A:24:GLY:HA2  | 19       | 7.41          |
| (1,3404) | 1:A:15:ARG:HD3  | 1:A:24:GLY:HA2  | 19       | 7.41          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2  | 11       | 7.41          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2  | 11       | 7.41          |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3  | 11       | 7.41          |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3  | 11       | 7.41          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3  | 10       | 7.41          |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 4        | 7.41          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2  | 5        | 7.41          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3  | 5        | 7.41          |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 12       | 7.41          |
| (1,2688) | 1:A:11:TRP:HB3  | 1:A:21:SER:H    | 15       | 7.41          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 7        | 7.41          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 7        | 7.41          |
| (1,2325) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HE21 | 19       | 7.41          |
| (1,2325) | 1:A:9:PRO:HG2   | 1:A:22:GLN:HE22 | 19       | 7.41          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 8        | 7.41          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 9        | 7.41          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 15       | 7.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 1        | 7.41          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3 | 20       | 7.41          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 13       | 7.41          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 13       | 7.41          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG  | 4        | 7.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 16       | 7.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 16       | 7.41          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 1        | 7.41          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 11       | 7.41          |
| (1,1714) | 1:A:6:GLN:HG2  | 1:A:21:SER:HB3 | 15       | 7.41          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 16       | 7.41          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 18       | 7.41          |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA  | 19       | 7.41          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 4        | 7.41          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 13       | 7.41          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 11       | 7.41          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 14       | 7.41          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 20       | 7.41          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 13       | 7.41          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 13       | 7.41          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 9        | 7.41          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 16       | 7.41          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 19       | 7.41          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 19       | 7.4           |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 19       | 7.4           |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 17       | 7.4           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 1        | 7.4           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 1        | 7.4           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 1        | 7.4           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 1        | 7.4           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 15       | 7.4           |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 15       | 7.4           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 15       | 7.4           |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 15       | 7.4           |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1 | 17       | 7.4           |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 16       | 7.4           |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 16       | 7.4           |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 16       | 7.4           |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 11       | 7.4           |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 11       | 7.4           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 16       | 7.4           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 16       | 7.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ3 | 16       | 7.4           |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 12       | 7.4           |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H   | 17       | 7.4           |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG2 | 20       | 7.4           |
| (1,4617) | 1:A:26:CYS:H    | 1:A:31:LYS:HG3 | 20       | 7.4           |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 7        | 7.4           |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 7        | 7.4           |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 7        | 7.4           |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 7        | 7.4           |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 4        | 7.4           |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 8        | 7.4           |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 18       | 7.4           |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 19       | 7.4           |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 6        | 7.4           |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 2        | 7.4           |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 8        | 7.4           |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 3        | 7.4           |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 3        | 7.4           |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 5        | 7.4           |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 10       | 7.4           |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 7        | 7.4           |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 3        | 7.4           |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 3        | 7.4           |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 16       | 7.4           |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 6        | 7.4           |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 6        | 7.4           |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 16       | 7.4           |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 7        | 7.4           |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 7        | 7.4           |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 13       | 7.4           |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 13       | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 5        | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 5        | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 5        | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 9        | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 9        | 7.4           |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 9        | 7.4           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 3        | 7.4           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 3        | 7.4           |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 13       | 7.4           |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 11       | 7.4           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 16       | 7.4           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 16       | 7.4           |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 7        | 7.4           |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H    | 6        | 7.4           |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H    | 6        | 7.4           |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H    | 6        | 7.4           |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA   | 6        | 7.4           |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA   | 8        | 7.4           |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA   | 12       | 7.4           |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 16       | 7.4           |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 20       | 7.4           |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 8        | 7.4           |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 20       | 7.4           |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H    | 13       | 7.4           |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3  | 7        | 7.4           |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3  | 7        | 7.4           |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA2  | 18       | 7.4           |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA2  | 18       | 7.4           |
| (1,3371) | 1:A:15:ARG:HG2  | 1:A:24:GLY:HA3  | 18       | 7.4           |
| (1,3371) | 1:A:15:ARG:HG3  | 1:A:24:GLY:HA3  | 18       | 7.4           |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 20       | 7.4           |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 9        | 7.4           |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 9        | 7.4           |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 12       | 7.4           |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 12       | 7.4           |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3  | 17       | 7.4           |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1  | 18       | 7.4           |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2  | 18       | 7.4           |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H    | 12       | 7.4           |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H    | 13       | 7.4           |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 2        | 7.4           |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 1        | 7.4           |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 4        | 7.4           |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 13       | 7.4           |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 15       | 7.4           |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG   | 11       | 7.4           |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE1  | 15       | 7.4           |
| (1,3013) | 1:A:12:GLY:H    | 1:A:25:TYR:HE2  | 15       | 7.4           |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 7        | 7.4           |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 12       | 7.4           |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 8        | 7.4           |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H    | 9        | 7.4           |
| (1,2389) | 1:A:9:PRO:HG3   | 1:A:22:GLN:HE21 | 11       | 7.4           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2389) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HE22 | 11       | 7.4           |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 2        | 7.4           |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 5        | 7.4           |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 10       | 7.4           |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 2        | 7.4           |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 5        | 7.4           |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 4        | 7.4           |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 8        | 7.4           |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 12       | 7.4           |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 18       | 7.4           |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 5        | 7.4           |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 5        | 7.4           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 1        | 7.4           |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 1        | 7.4           |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 16       | 7.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 16       | 7.4           |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 16       | 7.4           |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 3        | 7.4           |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 3        | 7.4           |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 18       | 7.4           |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 18       | 7.4           |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 19       | 7.4           |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 19       | 7.4           |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 14       | 7.4           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 16       | 7.4           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 16       | 7.4           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 19       | 7.4           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 19       | 7.4           |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 7        | 7.4           |
| (1,1518) | 1:A:6:GLN:H    | 1:A:19:CYS:HA   | 20       | 7.4           |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 3        | 7.4           |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 10       | 7.4           |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 12       | 7.4           |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 15       | 7.4           |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 17       | 7.4           |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2  | 9        | 7.4           |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3  | 9        | 7.4           |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 1        | 7.4           |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 20       | 7.39          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 20       | 7.39          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2  | 13       | 7.39          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3  | 13       | 7.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 19       | 7.39          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 19       | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2 | 2        | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2 | 2        | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2 | 2        | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3 | 2        | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3 | 2        | 7.39          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3 | 2        | 7.39          |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 12       | 7.39          |
| (1,4693) | 1:A:27:GLY:H    | 1:A:35:HIS:HE1 | 12       | 7.39          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 11       | 7.39          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 11       | 7.39          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 1        | 7.39          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 3        | 7.39          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 6        | 7.39          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 11       | 7.39          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 15       | 7.39          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 3        | 7.39          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 3        | 7.39          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 6        | 7.39          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 20       | 7.39          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 16       | 7.39          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 16       | 7.39          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 9        | 7.39          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 9        | 7.39          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 3        | 7.39          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 12       | 7.39          |
| (1,4001) | 1:A:20:CYS:HB3  | 1:A:31:LYS:HA  | 8        | 7.39          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 1        | 7.39          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 5        | 7.39          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 5        | 7.39          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 5        | 7.39          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 4        | 7.39          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 15       | 7.39          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 13       | 7.39          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 13       | 7.39          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 13       | 7.39          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 4        | 7.39          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 4        | 7.39          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA2 | 11       | 7.39          |
| (1,3311) | 1:A:15:ARG:HB2  | 1:A:29:GLY:HA3 | 11       | 7.39          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 10       | 7.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1  | 19       | 7.39          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2  | 19       | 7.39          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H    | 9        | 7.39          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H    | 11       | 7.39          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 15       | 7.39          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 5        | 7.39          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1  | 1        | 7.39          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2  | 1        | 7.39          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 9        | 7.39          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 14       | 7.39          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 14       | 7.39          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 16       | 7.39          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 18       | 7.39          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 19       | 7.39          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 12       | 7.39          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 12       | 7.39          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 12       | 7.39          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 12       | 7.39          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 12       | 7.39          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 10       | 7.39          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 10       | 7.39          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 12       | 7.39          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 13       | 7.39          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 3        | 7.39          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 4        | 7.39          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 6        | 7.39          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 3        | 7.39          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 4        | 7.39          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 6        | 7.39          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 10       | 7.39          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 14       | 7.39          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 9        | 7.39          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 16       | 7.39          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 7        | 7.39          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 19       | 7.39          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 3        | 7.39          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 5        | 7.39          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 12       | 7.39          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE1  | 20       | 7.39          |
| (1,1955) | 1:A:7:CYS:H    | 1:A:23:TYR:HE2  | 20       | 7.39          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 14       | 7.39          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 14       | 7.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3  | 14       | 7.39          |
| (1,1824) | 1:A:6:GLN:HE21  | 1:A:21:SER:HG  | 7        | 7.39          |
| (1,1824) | 1:A:6:GLN:HE21  | 1:A:21:SER:HG  | 16       | 7.39          |
| (1,1824) | 1:A:6:GLN:HE21  | 1:A:21:SER:HG  | 18       | 7.39          |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB2  | 17       | 7.39          |
| (1,1795) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HB3  | 17       | 7.39          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA2 | 6        | 7.39          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA3 | 6        | 7.39          |
| (1,1664) | 1:A:6:GLN:HB3   | 1:A:27:GLY:H   | 2        | 7.39          |
| (1,1642) | 1:A:6:GLN:HB3   | 1:A:20:CYS:H   | 1        | 7.39          |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H   | 5        | 7.39          |
| (1,1191) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HE1 | 14       | 7.39          |
| (1,1153) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HA  | 14       | 7.39          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 7        | 7.38          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 7        | 7.38          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 15       | 7.38          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 15       | 7.38          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 18       | 7.38          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 18       | 7.38          |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 17       | 7.38          |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 17       | 7.38          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 1        | 7.38          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 5        | 7.38          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 5        | 7.38          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 2        | 7.38          |
| (1,4621) | 1:A:26:CYS:H    | 1:A:32:TYR:H   | 4        | 7.38          |
| (1,4545) | 1:A:25:TYR:HB3  | 1:A:28:SER:HB3 | 14       | 7.38          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 16       | 7.38          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 16       | 7.38          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 9        | 7.38          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 6        | 7.38          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 20       | 7.38          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 12       | 7.38          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 4        | 7.38          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 9        | 7.38          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 9        | 7.38          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 14       | 7.38          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 14       | 7.38          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 1        | 7.38          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 1        | 7.38          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 1        | 7.38          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 1        | 7.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3751) | 1:A:18:LEU:HG  | 1:A:32:TYR:H   | 18       | 7.38          |
| (1,3751) | 1:A:18:LEU:HG  | 1:A:32:TYR:H   | 19       | 7.38          |
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H   | 1        | 7.38          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB1 | 7        | 7.38          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB2 | 7        | 7.38          |
| (1,3585) | 1:A:17:GLY:H   | 1:A:34:ALA:HB3 | 7        | 7.38          |
| (1,3572) | 1:A:17:GLY:H   | 1:A:29:GLY:HA3 | 20       | 7.38          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 19       | 7.38          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3 | 11       | 7.38          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 11       | 7.38          |
| (1,3267) | 1:A:15:ARG:H   | 1:A:25:TYR:H   | 15       | 7.38          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 8        | 7.38          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 19       | 7.38          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H   | 20       | 7.38          |
| (1,2961) | 1:A:11:TRP:HH2 | 1:A:12:GLY:HA3 | 13       | 7.38          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 16       | 7.38          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA  | 10       | 7.38          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 10       | 7.38          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H   | 8        | 7.38          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H   | 13       | 7.38          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 14       | 7.38          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 14       | 7.38          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H   | 11       | 7.38          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3 | 9        | 7.38          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3 | 14       | 7.38          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3 | 20       | 7.38          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 11       | 7.38          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 16       | 7.38          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 9        | 7.38          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H   | 2        | 7.38          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H   | 10       | 7.38          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H   | 16       | 7.38          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H   | 20       | 7.38          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 14       | 7.38          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 14       | 7.38          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 14       | 7.38          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 14       | 7.38          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 6        | 7.38          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG  | 19       | 7.38          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 13       | 7.38          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 14       | 7.38          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 19       | 7.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 3        | 7.38          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 3        | 7.38          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 4        | 7.38          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 4        | 7.38          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 5        | 7.38          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 10       | 7.38          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 13       | 7.38          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 14       | 7.38          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 7        | 7.38          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 7        | 7.38          |
| (1,1126) | 1:A:4:ASN:HB2  | 1:A:11:TRP:H   | 15       | 7.38          |
| (1,1069) | 1:A:4:ASN:H    | 1:A:18:LEU:HB3 | 20       | 7.38          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 20       | 7.37          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 1        | 7.37          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 1        | 7.37          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 11       | 7.37          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 6        | 7.37          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 6        | 7.37          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 10       | 7.37          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 10       | 7.37          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 2        | 7.37          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2 | 7        | 7.37          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3 | 20       | 7.37          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 9        | 7.37          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 9        | 7.37          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 4        | 7.37          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 12       | 7.37          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 4        | 7.37          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 2        | 7.37          |
| (1,4419) | 1:A:23:TYR:HE2 | 1:A:28:SER:H   | 2        | 7.37          |
| (1,4399) | 1:A:23:TYR:HD1 | 1:A:29:GLY:HA3 | 2        | 7.37          |
| (1,4399) | 1:A:23:TYR:HD2 | 1:A:29:GLY:HA3 | 2        | 7.37          |
| (1,4262) | 1:A:22:GLN:HG3 | 1:A:32:TYR:H   | 5        | 7.37          |
| (1,4255) | 1:A:22:GLN:HG3 | 1:A:27:GLY:HA2 | 20       | 7.37          |
| (1,4241) | 1:A:22:GLN:HB3 | 1:A:34:ALA:H   | 14       | 7.37          |
| (1,4210) | 1:A:22:GLN:HG2 | 1:A:35:HIS:H   | 14       | 7.37          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2 | 14       | 7.37          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3 | 14       | 7.37          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB2 | 15       | 7.37          |
| (1,4115) | 1:A:22:GLN:H   | 1:A:28:SER:HB3 | 15       | 7.37          |
| (1,4034) | 1:A:21:SER:H   | 1:A:31:LYS:HB2 | 7        | 7.37          |
| (1,3988) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HE1 | 8        | 7.37          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 8        | 7.37          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 10       | 7.37          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 10       | 7.37          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 5        | 7.37          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 12       | 7.37          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 12       | 7.37          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 6        | 7.37          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 5        | 7.37          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 5        | 7.37          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 10       | 7.37          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 10       | 7.37          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 10       | 7.37          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 14       | 7.37          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H    | 13       | 7.37          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H    | 13       | 7.37          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H    | 13       | 7.37          |
| (1,3796) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HD2  | 13       | 7.37          |
| (1,3796) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HD2  | 13       | 7.37          |
| (1,3796) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HD2  | 13       | 7.37          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1  | 14       | 7.37          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2  | 14       | 7.37          |
| (1,3709) | 1:A:18:LEU:HB3  | 1:A:23:TYR:HB2  | 14       | 7.37          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 16       | 7.37          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 19       | 7.37          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 8        | 7.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1  | 13       | 7.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2  | 13       | 7.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3  | 13       | 7.37          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 12       | 7.37          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 12       | 7.37          |
| (1,3328) | 1:A:15:ARG:HB3  | 1:A:21:SER:H    | 13       | 7.37          |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H    | 7        | 7.37          |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H    | 18       | 7.37          |
| (1,3188) | 1:A:14:CYS:H    | 1:A:28:SER:H    | 10       | 7.37          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 6        | 7.37          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 12       | 7.37          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA   | 2        | 7.37          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA   | 6        | 7.37          |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 2        | 7.37          |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 20       | 7.37          |
| (1,2688) | 1:A:11:TRP:HB3  | 1:A:21:SER:H    | 20       | 7.37          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 8        | 7.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 8        | 7.37          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 8        | 7.37          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 8        | 7.37          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 8        | 7.37          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 8        | 7.37          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 20       | 7.37          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 20       | 7.37          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 2        | 7.37          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 2        | 7.37          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 1        | 7.37          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 7        | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 7        | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 8        | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 12       | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 16       | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 18       | 7.37          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 19       | 7.37          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 9        | 7.37          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 14       | 7.37          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 20       | 7.37          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 19       | 7.37          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 13       | 7.37          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 7        | 7.37          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA2  | 17       | 7.37          |
| (1,2062) | 1:A:8:GLY:H    | 1:A:27:GLY:HA3  | 17       | 7.37          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 3        | 7.37          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 6        | 7.37          |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 14       | 7.37          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 8        | 7.37          |
| (1,2020) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HE1  | 9        | 7.37          |
| (1,2020) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HE1  | 9        | 7.37          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 6        | 7.37          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 6        | 7.37          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 6        | 7.37          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 1        | 7.37          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 1        | 7.37          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 1        | 7.37          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 4        | 7.37          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 4        | 7.37          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 16       | 7.37          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 17       | 7.37          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 17       | 7.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 14       | 7.37          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 14       | 7.37          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 11       | 7.37          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 3        | 7.37          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 3        | 7.37          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 9        | 7.37          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 9        | 7.37          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 20       | 7.37          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1 | 4        | 7.37          |
| (1,1189) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HA  | 13       | 7.37          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 17       | 7.37          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG2 | 11       | 7.37          |
| (1,1009) | 1:A:3:PRO:HD3  | 1:A:15:ARG:HG3 | 11       | 7.37          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 17       | 7.36          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 17       | 7.36          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 18       | 7.36          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 10       | 7.36          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 10       | 7.36          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 18       | 7.36          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 18       | 7.36          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA2 | 17       | 7.36          |
| (1,650)  | 1:A:2:GLY:H    | 1:A:27:GLY:HA3 | 17       | 7.36          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 5        | 7.36          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 5        | 7.36          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 8        | 7.36          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 17       | 7.36          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 17       | 7.36          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 5        | 7.36          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 10       | 7.36          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 12       | 7.36          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 17       | 7.36          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 4        | 7.36          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 17       | 7.36          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 2        | 7.36          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 16       | 7.36          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 18       | 7.36          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 19       | 7.36          |
| (1,4621) | 1:A:26:CYS:H   | 1:A:32:TYR:H   | 20       | 7.36          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2 | 9        | 7.36          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3 | 9        | 7.36          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2 | 9        | 7.36          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3 | 9        | 7.36          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 5        | 7.36          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 5        | 7.36          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 16       | 7.36          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 16       | 7.36          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 16       | 7.36          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 16       | 7.36          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 16       | 7.36          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 5        | 7.36          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 5        | 7.36          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 7        | 7.36          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 14       | 7.36          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 11       | 7.36          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 11       | 7.36          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 11       | 7.36          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 10       | 7.36          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 7        | 7.36          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 17       | 7.36          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 17       | 7.36          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 1        | 7.36          |
| (1,3861) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB2 | 15       | 7.36          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 18       | 7.36          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 18       | 7.36          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 18       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 19       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 19       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 19       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 19       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 19       | 7.36          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 19       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 12       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 12       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 12       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 15       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 15       | 7.36          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 15       | 7.36          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 10       | 7.36          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 18       | 7.36          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 5        | 7.36          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 5        | 7.36          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 5        | 7.36          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 11       | 7.36          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 11       | 7.36          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3427) | 1:A:15:ARG:HE  | 1:A:20:CYS:H    | 8        | 7.36          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H    | 19       | 7.36          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H    | 19       | 7.36          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA   | 16       | 7.36          |
| (1,3293) | 1:A:15:ARG:HB2 | 1:A:21:SER:H    | 13       | 7.36          |
| (1,3276) | 1:A:15:ARG:H   | 1:A:32:TYR:HB3  | 4        | 7.36          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H    | 7        | 7.36          |
| (1,3235) | 1:A:14:CYS:HB3 | 1:A:23:TYR:H    | 16       | 7.36          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 5        | 7.36          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 6        | 7.36          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 8        | 7.36          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 11       | 7.36          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 3        | 7.36          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 5        | 7.36          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 9        | 7.36          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 18       | 7.36          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 19       | 7.36          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 11       | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 7        | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 8        | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 12       | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 16       | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 18       | 7.36          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 19       | 7.36          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 18       | 7.36          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 10       | 7.36          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB2  | 17       | 7.36          |
| (1,2108) | 1:A:8:GLY:HA3  | 1:A:18:LEU:HB3  | 17       | 7.36          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 9        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 3        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 3        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 3        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 4        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 4        | 7.36          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 4        | 7.36          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 11       | 7.36          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 11       | 7.36          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 11       | 7.36          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 7        | 7.36          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 18       | 7.36          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 18       | 7.36          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 19       | 7.36          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1069) | 1:A:4:ASN:H     | 1:A:18:LEU:HB3 | 7        | 7.36          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3 | 17       | 7.35          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 8        | 7.35          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 8        | 7.35          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 14       | 7.35          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 14       | 7.35          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 14       | 7.35          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 14       | 7.35          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 13       | 7.35          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 13       | 7.35          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 3        | 7.35          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 2        | 7.35          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 5        | 7.35          |
| (1,4624) | 1:A:26:CYS:H    | 1:A:33:CYS:H   | 2        | 7.35          |
| (1,4439) | 1:A:23:TYR:HE1  | 1:A:34:ALA:H   | 14       | 7.35          |
| (1,4439) | 1:A:23:TYR:HE2  | 1:A:34:ALA:H   | 14       | 7.35          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 14       | 7.35          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 14       | 7.35          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 14       | 7.35          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 15       | 7.35          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 14       | 7.35          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 14       | 7.35          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 13       | 7.35          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 19       | 7.35          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 8        | 7.35          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 8        | 7.35          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 1        | 7.35          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 1        | 7.35          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 1        | 7.35          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 7        | 7.35          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 9        | 7.35          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 9        | 7.35          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 20       | 7.35          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 11       | 7.35          |
| (1,3782) | 1:A:18:LEU:HD11 | 1:A:30:PRO:HA  | 14       | 7.35          |
| (1,3782) | 1:A:18:LEU:HD12 | 1:A:30:PRO:HA  | 14       | 7.35          |
| (1,3782) | 1:A:18:LEU:HD13 | 1:A:30:PRO:HA  | 14       | 7.35          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 11       | 7.35          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 11       | 7.35          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 11       | 7.35          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 2        | 7.35          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 10       | 7.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H   | 12       | 7.35          |
| (1,3476) | 1:A:16:GLY:H   | 1:A:28:SER:H   | 16       | 7.35          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 11       | 7.35          |
| (1,3399) | 1:A:15:ARG:HD2 | 1:A:21:SER:HG  | 1        | 7.35          |
| (1,3399) | 1:A:15:ARG:HD3 | 1:A:21:SER:HG  | 1        | 7.35          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 4        | 7.35          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1 | 8        | 7.35          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2 | 8        | 7.35          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1 | 20       | 7.35          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2 | 20       | 7.35          |
| (1,3260) | 1:A:15:ARG:H   | 1:A:21:SER:H   | 5        | 7.35          |
| (1,3255) | 1:A:14:CYS:HB3 | 1:A:34:ALA:H   | 16       | 7.35          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 1        | 7.35          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H   | 9        | 7.35          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3 | 3        | 7.35          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG  | 9        | 7.35          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA  | 4        | 7.35          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 19       | 7.35          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 19       | 7.35          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 4        | 7.35          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 4        | 7.35          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 12       | 7.35          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 16       | 7.35          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3 | 1        | 7.35          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3 | 17       | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 2        | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 3        | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 4        | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 5        | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 6        | 7.35          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 10       | 7.35          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3 | 13       | 7.35          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3 | 2        | 7.35          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 20       | 7.35          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H   | 6        | 7.35          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 2        | 7.35          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA  | 10       | 7.35          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 8        | 7.35          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 12       | 7.35          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 10       | 7.35          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 10       | 7.35          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 11       | 7.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 2        | 7.35          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 2        | 7.35          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 15       | 7.35          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 4        | 7.35          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 4        | 7.35          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 20       | 7.35          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 20       | 7.35          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 8        | 7.35          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 8        | 7.35          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 12       | 7.35          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 12       | 7.35          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 6        | 7.35          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 14       | 7.35          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 8        | 7.35          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 16       | 7.35          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 1        | 7.35          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 1        | 7.35          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 8        | 7.35          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 16       | 7.34          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 16       | 7.34          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 16       | 7.34          |
| (1,867)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:H   | 19       | 7.34          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 2        | 7.34          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 2        | 7.34          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 16       | 7.34          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 16       | 7.34          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 12       | 7.34          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1 | 19       | 7.34          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2 | 19       | 7.34          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1 | 19       | 7.34          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2 | 19       | 7.34          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 11       | 7.34          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 11       | 7.34          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1 | 3        | 7.34          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 7        | 7.34          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 7        | 7.34          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 7        | 7.34          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 14       | 7.34          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2 | 18       | 7.34          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3 | 18       | 7.34          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 15       | 7.34          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 15       | 7.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 13       | 7.34          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 12       | 7.34          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 12       | 7.34          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 6        | 7.34          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 6        | 7.34          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 10       | 7.34          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 18       | 7.34          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 7        | 7.34          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 10       | 7.34          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 12       | 7.34          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 7        | 7.34          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 7        | 7.34          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 11       | 7.34          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 11       | 7.34          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 2        | 7.34          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 5        | 7.34          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 20       | 7.34          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 20       | 7.34          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 20       | 7.34          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 20       | 7.34          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 20       | 7.34          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 20       | 7.34          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 1        | 7.34          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 1        | 7.34          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 1        | 7.34          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 8        | 7.34          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 8        | 7.34          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 8        | 7.34          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 17       | 7.34          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE1 | 12       | 7.34          |
| (1,3715) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HE2 | 12       | 7.34          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 11       | 7.34          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 8        | 7.34          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 8        | 7.34          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 4        | 7.34          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 4        | 7.34          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 10       | 7.34          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 2        | 7.34          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 2        | 7.34          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 6        | 7.34          |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H   | 8        | 7.34          |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H   | 12       | 7.34          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 20       | 7.34          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3  | 10       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 16       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 16       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 16       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 16       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 16       | 7.34          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 16       | 7.34          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 18       | 7.34          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 19       | 7.34          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 11       | 7.34          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 9        | 7.34          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 20       | 7.34          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 8        | 7.34          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 20       | 7.34          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 19       | 7.34          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 5        | 7.34          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 3        | 7.34          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 9        | 7.34          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 11       | 7.34          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 11       | 7.34          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 3        | 7.34          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 3        | 7.34          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 18       | 7.34          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 18       | 7.34          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 19       | 7.34          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 19       | 7.34          |
| (1,1829) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HA   | 5        | 7.34          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 3        | 7.34          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 5        | 7.34          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 5        | 7.34          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 10       | 7.34          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 10       | 7.34          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 7        | 7.34          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 3        | 7.34          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 12       | 7.34          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 12       | 7.34          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 17       | 7.34          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H    | 13       | 7.33          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H    | 13       | 7.33          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 19       | 7.33          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 19       | 7.33          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 1        | 7.33          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 1        | 7.33          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG2 | 16       | 7.33          |
| (1,724)  | 1:A:2:GLY:HA3   | 1:A:15:ARG:HG3 | 16       | 7.33          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1 | 18       | 7.33          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2 | 18       | 7.33          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1 | 18       | 7.33          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2 | 18       | 7.33          |
| (1,569)  | 1:A:1:SER:HB2   | 1:A:23:TYR:H   | 10       | 7.33          |
| (1,569)  | 1:A:1:SER:HB3   | 1:A:23:TYR:H   | 10       | 7.33          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 13       | 7.33          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 13       | 7.33          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 16       | 7.33          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 3        | 7.33          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 6        | 7.33          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 1        | 7.33          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 17       | 7.33          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 17       | 7.33          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 2        | 7.33          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 2        | 7.33          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 15       | 7.33          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 2        | 7.33          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 16       | 7.33          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 16       | 7.33          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 1        | 7.33          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 1        | 7.33          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 12       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 10       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 10       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 10       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 10       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 10       | 7.33          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 10       | 7.33          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 5        | 7.33          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 2        | 7.33          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 2        | 7.33          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 15       | 7.33          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 15       | 7.33          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 7        | 7.33          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 7        | 7.33          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 14       | 7.33          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 14       | 7.33          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD1  | 4        | 7.33          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD2  | 4        | 7.33          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 11       | 7.33          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 13       | 7.33          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 18       | 7.33          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 19       | 7.33          |
| (1,3140) | 1:A:13:GLY:HA2 | 1:A:27:GLY:HA3  | 2        | 7.33          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 9        | 7.33          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 20       | 7.33          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 14       | 7.33          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 7        | 7.33          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 16       | 7.33          |
| (1,2688) | 1:A:11:TRP:HB3 | 1:A:21:SER:H    | 17       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 18       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 18       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 18       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 18       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 18       | 7.33          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 18       | 7.33          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H    | 5        | 7.33          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H    | 5        | 7.33          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE21 | 11       | 7.33          |
| (1,2325) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HE22 | 11       | 7.33          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 15       | 7.33          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2  | 1        | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 7        | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 8        | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 14       | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 16       | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 18       | 7.33          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 19       | 7.33          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 7        | 7.33          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 20       | 7.33          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 20       | 7.33          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 18       | 7.33          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 1        | 7.33          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 2        | 7.33          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 4        | 7.33          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 5        | 7.33          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 10       | 7.33          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 1        | 7.33          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 1        | 7.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 7        | 7.33          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 7        | 7.33          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 1        | 7.33          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 9        | 7.33          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 12       | 7.33          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 17       | 7.33          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 17       | 7.33          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 1        | 7.33          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 9        | 7.33          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 17       | 7.33          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 15       | 7.33          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 1        | 7.33          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 5        | 7.33          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 5        | 7.33          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 17       | 7.33          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 13       | 7.33          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 1        | 7.33          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H   | 12       | 7.32          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H   | 12       | 7.32          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 1        | 7.32          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 15       | 7.32          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 9        | 7.32          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 1        | 7.32          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 1        | 7.32          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 1        | 7.32          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 18       | 7.32          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 19       | 7.32          |
| (1,4662) | 1:A:26:CYS:HB2 | 1:A:33:CYS:H   | 20       | 7.32          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 16       | 7.32          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 18       | 7.32          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 19       | 7.32          |
| (1,4624) | 1:A:26:CYS:H   | 1:A:33:CYS:H   | 20       | 7.32          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H   | 12       | 7.32          |
| (1,4439) | 1:A:23:TYR:HE1 | 1:A:34:ALA:H   | 2        | 7.32          |
| (1,4439) | 1:A:23:TYR:HE2 | 1:A:34:ALA:H   | 2        | 7.32          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD2 | 1        | 7.32          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD2 | 1        | 7.32          |
| (1,4425) | 1:A:23:TYR:HE1 | 1:A:30:PRO:HD3 | 1        | 7.32          |
| (1,4425) | 1:A:23:TYR:HE2 | 1:A:30:PRO:HD3 | 1        | 7.32          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 9        | 7.32          |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 9        | 7.32          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 8        | 7.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 8        | 7.32          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 8        | 7.32          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 7        | 7.32          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 18       | 7.32          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 13       | 7.32          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 4        | 7.32          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 8        | 7.32          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 9        | 7.32          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB2 | 12       | 7.32          |
| (1,4115) | 1:A:22:GLN:H    | 1:A:28:SER:HB3 | 12       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 18       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 18       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 18       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 19       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 19       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 19       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 20       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 20       | 7.32          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 20       | 7.32          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 6        | 7.32          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 5        | 7.32          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 10       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 12       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 12       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 12       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 12       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 12       | 7.32          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 12       | 7.32          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 9        | 7.32          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 9        | 7.32          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 9        | 7.32          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 6        | 7.32          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 6        | 7.32          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 6        | 7.32          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 9        | 7.32          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 9        | 7.32          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 3        | 7.32          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 3        | 7.32          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 11       | 7.32          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 6        | 7.32          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 11       | 7.32          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H   | 18       | 7.32          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3288) | 1:A:15:ARG:HA  | 1:A:33:CYS:H    | 19       | 7.32          |
| (1,3232) | 1:A:14:CYS:HB3 | 1:A:22:GLN:H    | 7        | 7.32          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2  | 1        | 7.32          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3  | 1        | 7.32          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB2  | 17       | 7.32          |
| (1,2779) | 1:A:11:TRP:HE3 | 1:A:14:CYS:HB3  | 17       | 7.32          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 16       | 7.32          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 16       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 19       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 20       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 20       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 20       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 20       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 20       | 7.32          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 20       | 7.32          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2  | 8        | 7.32          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3  | 8        | 7.32          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 11       | 7.32          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 11       | 7.32          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 11       | 7.32          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 12       | 7.32          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 4        | 7.32          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 14       | 7.32          |
| (1,2116) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HG3  | 5        | 7.32          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 11       | 7.32          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 6        | 7.32          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 20       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 16       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 16       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 16       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 17       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 17       | 7.32          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 17       | 7.32          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 20       | 7.32          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 15       | 7.32          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 5        | 7.32          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 5        | 7.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1 | 11       | 7.32          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2 | 11       | 7.32          |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3 | 11       | 7.32          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 15       | 7.32          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 15       | 7.32          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 20       | 7.32          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 20       | 7.32          |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H   | 20       | 7.32          |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 16       | 7.32          |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 18       | 7.32          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG  | 13       | 7.32          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG  | 15       | 7.32          |
| (1,895)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:H   | 11       | 7.31          |
| (1,895)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:H   | 11       | 7.31          |
| (1,867)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:H   | 7        | 7.31          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 17       | 7.31          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 17       | 7.31          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 8        | 7.31          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 13       | 7.31          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3 | 13       | 7.31          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 13       | 7.31          |
| (1,4890) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HA  | 13       | 7.31          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 18       | 7.31          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 19       | 7.31          |
| (1,4501) | 1:A:24:GLY:HA3  | 1:A:35:HIS:HD2 | 3        | 7.31          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 14       | 7.31          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 14       | 7.31          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 10       | 7.31          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 10       | 7.31          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 11       | 7.31          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 19       | 7.31          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 20       | 7.31          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 14       | 7.31          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 9        | 7.31          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 12       | 7.31          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 15       | 7.31          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 2        | 7.31          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 16       | 7.31          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 3        | 7.31          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 18       | 7.31          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 5        | 7.31          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 16       | 7.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 17       | 7.31          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 17       | 7.31          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 20       | 7.31          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 20       | 7.31          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 20       | 7.31          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 12       | 7.31          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 12       | 7.31          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 7        | 7.31          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 15       | 7.31          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 15       | 7.31          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 15       | 7.31          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 16       | 7.31          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 16       | 7.31          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 16       | 7.31          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 13       | 7.31          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 17       | 7.31          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 1        | 7.31          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 1        | 7.31          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA2 | 13       | 7.31          |
| (1,3347) | 1:A:15:ARG:HB3  | 1:A:29:GLY:HA3 | 13       | 7.31          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 4        | 7.31          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 2        | 7.31          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 2        | 7.31          |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 11       | 7.31          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 4        | 7.31          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 10       | 7.31          |
| (1,3232) | 1:A:14:CYS:HB3  | 1:A:22:GLN:H   | 16       | 7.31          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA  | 16       | 7.31          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 5        | 7.31          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 5        | 7.31          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 10       | 7.31          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 10       | 7.31          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 4        | 7.31          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 6        | 7.31          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 9        | 7.31          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 18       | 7.31          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 19       | 7.31          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 20       | 7.31          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 14       | 7.31          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3 | 14       | 7.31          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG2 | 18       | 7.31          |
| (1,2582) | 1:A:11:TRP:H    | 1:A:15:ARG:HG3 | 18       | 7.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 6        | 7.31          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 6        | 7.31          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2 | 1        | 7.31          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H   | 17       | 7.31          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2 | 15       | 7.31          |
| (1,2144) | 1:A:9:PRO:HA   | 1:A:11:TRP:HH2 | 17       | 7.31          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 11       | 7.31          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 3        | 7.31          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 6        | 7.31          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 12       | 7.31          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 15       | 7.31          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3 | 5        | 7.31          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 16       | 7.31          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H   | 6        | 7.31          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H   | 6        | 7.31          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H   | 10       | 7.31          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H   | 10       | 7.31          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2 | 13       | 7.31          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 4        | 7.31          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 12       | 7.31          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 8        | 7.31          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 9        | 7.31          |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H   | 16       | 7.31          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1 | 6        | 7.31          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2 | 6        | 7.31          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 11       | 7.31          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2 | 14       | 7.31          |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3 | 14       | 7.31          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 3        | 7.31          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2 | 16       | 7.3           |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 18       | 7.3           |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA  | 18       | 7.3           |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA  | 20       | 7.3           |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 4        | 7.3           |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 4        | 7.3           |
| (1,4545) | 1:A:25:TYR:HB3 | 1:A:28:SER:HB3 | 12       | 7.3           |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2 | 10       | 7.3           |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2 | 10       | 7.3           |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3 | 10       | 7.3           |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3 | 10       | 7.3           |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 4        | 7.3           |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 4        | 7.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 1        | 7.3           |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB2 | 17       | 7.3           |
| (1,4253) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HB3 | 17       | 7.3           |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 2        | 7.3           |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 3        | 7.3           |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 4        | 7.3           |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 5        | 7.3           |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 3        | 7.3           |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 14       | 7.3           |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 18       | 7.3           |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 19       | 7.3           |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 20       | 7.3           |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 13       | 7.3           |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 9        | 7.3           |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 9        | 7.3           |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 8        | 7.3           |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 9        | 7.3           |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 9        | 7.3           |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 9        | 7.3           |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 2        | 7.3           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB1 | 16       | 7.3           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB2 | 16       | 7.3           |
| (1,3585) | 1:A:17:GLY:H    | 1:A:34:ALA:HB3 | 16       | 7.3           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 13       | 7.3           |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 13       | 7.3           |
| (1,3408) | 1:A:15:ARG:HD2  | 1:A:29:GLY:H   | 1        | 7.3           |
| (1,3408) | 1:A:15:ARG:HD3  | 1:A:29:GLY:H   | 1        | 7.3           |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 2        | 7.3           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 1        | 7.3           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 13       | 7.3           |
| (1,3267) | 1:A:15:ARG:H    | 1:A:25:TYR:H   | 14       | 7.3           |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 14       | 7.3           |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 2        | 7.3           |
| (1,3235) | 1:A:14:CYS:HB3  | 1:A:23:TYR:H   | 14       | 7.3           |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1 | 2        | 7.3           |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2 | 2        | 7.3           |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 5        | 7.3           |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 1        | 7.3           |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 13       | 7.3           |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3 | 14       | 7.3           |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3 | 17       | 7.3           |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG  | 2        | 7.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 2        | 7.3           |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 5        | 7.3           |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 10       | 7.3           |
| (1,2862) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HA   | 17       | 7.3           |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 7        | 7.3           |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 8        | 7.3           |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 12       | 7.3           |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 16       | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 9        | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 9        | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 9        | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 9        | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 9        | 7.3           |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 9        | 7.3           |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 4        | 7.3           |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 15       | 7.3           |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 20       | 7.3           |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 1        | 7.3           |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 3        | 7.3           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 1        | 7.3           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 1        | 7.3           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 15       | 7.3           |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 15       | 7.3           |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 8        | 7.3           |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 15       | 7.3           |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 16       | 7.3           |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 18       | 7.3           |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 8        | 7.3           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 2        | 7.3           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 2        | 7.3           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 2        | 7.3           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 8        | 7.3           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 8        | 7.3           |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 8        | 7.3           |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 16       | 7.3           |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 20       | 7.3           |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 7        | 7.3           |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 18       | 7.3           |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 19       | 7.3           |
| (1,1642) | 1:A:6:GLN:HB3  | 1:A:20:CYS:H    | 20       | 7.3           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 1        | 7.3           |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 1        | 7.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE1 | 10       | 7.3           |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE2 | 10       | 7.3           |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB2 | 14       | 7.3           |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB3 | 14       | 7.3           |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3 | 1        | 7.3           |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 19       | 7.3           |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB2 | 17       | 7.3           |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB3 | 17       | 7.3           |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 18       | 7.3           |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 19       | 7.3           |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H   | 15       | 7.3           |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 19       | 7.3           |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD1 | 8        | 7.3           |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD2 | 8        | 7.3           |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2 | 17       | 7.3           |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3 | 17       | 7.3           |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 7        | 7.29          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 11       | 7.29          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 11       | 7.29          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 11       | 7.29          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 17       | 7.29          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 10       | 7.29          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 9        | 7.29          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 9        | 7.29          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 9        | 7.29          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 9        | 7.29          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 6        | 7.29          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 6        | 7.29          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 11       | 7.29          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 1        | 7.29          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 15       | 7.29          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 16       | 7.29          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 4        | 7.29          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 10       | 7.29          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 2        | 7.29          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 6        | 7.29          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 9        | 7.29          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 13       | 7.29          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 9        | 7.29          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 9        | 7.29          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 9        | 7.29          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 17       | 7.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 17       | 7.29          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 17       | 7.29          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 20       | 7.29          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 20       | 7.29          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 20       | 7.29          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 11       | 7.29          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 11       | 7.29          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 13       | 7.29          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 6        | 7.29          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 6        | 7.29          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 3        | 7.29          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 7        | 7.29          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 7        | 7.29          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 3        | 7.29          |
| (1,3223) | 1:A:14:CYS:HB2  | 1:A:34:ALA:HA  | 7        | 7.29          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD1 | 17       | 7.29          |
| (1,3166) | 1:A:13:GLY:HA3  | 1:A:32:TYR:HD2 | 17       | 7.29          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 2        | 7.29          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 3        | 7.29          |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG  | 20       | 7.29          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 3        | 7.29          |
| (1,2330) | 1:A:9:PRO:HG2   | 1:A:24:GLY:H   | 8        | 7.29          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H   | 2        | 7.29          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H   | 5        | 7.29          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H   | 10       | 7.29          |
| (1,2118) | 1:A:8:GLY:HA3   | 1:A:23:TYR:HB3 | 14       | 7.29          |
| (1,2052) | 1:A:8:GLY:H     | 1:A:23:TYR:H   | 14       | 7.29          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3 | 15       | 7.29          |
| (1,2040) | 1:A:8:GLY:H     | 1:A:19:CYS:H   | 19       | 7.29          |
| (1,2037) | 1:A:8:GLY:H     | 1:A:18:LEU:HB2 | 14       | 7.29          |
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE1 | 14       | 7.29          |
| (1,1955) | 1:A:7:CYS:H     | 1:A:23:TYR:HE2 | 14       | 7.29          |
| (1,1697) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HA   | 7        | 7.29          |
| (1,1697) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HA   | 8        | 7.29          |
| (1,1697) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HA   | 14       | 7.29          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE1 | 2        | 7.29          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE2 | 2        | 7.29          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1 | 18       | 7.29          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2 | 18       | 7.29          |
| (1,1517) | 1:A:6:GLN:H     | 1:A:19:CYS:H   | 2        | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 7        | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 8        | 7.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 12       | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 16       | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 17       | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 18       | 7.29          |
| (1,1470) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HE1 | 20       | 7.29          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 7        | 7.29          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD1 | 14       | 7.29          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD2 | 14       | 7.29          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG  | 20       | 7.29          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 8        | 7.28          |
| (1,780)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ2 | 9        | 7.28          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 6        | 7.28          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 6        | 7.28          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 6        | 7.28          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 6        | 7.28          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB2 | 20       | 7.28          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB2 | 20       | 7.28          |
| (1,4604) | 1:A:25:TYR:HE1  | 1:A:35:HIS:HB3 | 20       | 7.28          |
| (1,4604) | 1:A:25:TYR:HE2  | 1:A:35:HIS:HB3 | 20       | 7.28          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 7        | 7.28          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 7        | 7.28          |
| (1,4551) | 1:A:25:TYR:HB3  | 1:A:32:TYR:H   | 4        | 7.28          |
| (1,4487) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HE1 | 19       | 7.28          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 17       | 7.28          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 17       | 7.28          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 12       | 7.28          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 12       | 7.28          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 9        | 7.28          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 1        | 7.28          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 20       | 7.28          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 17       | 7.28          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 17       | 7.28          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 17       | 7.28          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 2        | 7.28          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 2        | 7.28          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 6        | 7.28          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 6        | 7.28          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 4        | 7.28          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 8        | 7.28          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 12       | 7.28          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 17       | 7.28          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 7        | 7.28          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 7        | 7.28          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 20       | 7.28          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2  | 10       | 7.28          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 8        | 7.28          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 9        | 7.28          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 11       | 7.28          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 11       | 7.28          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 6        | 7.28          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 6        | 7.28          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 6        | 7.28          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA   | 17       | 7.28          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 6        | 7.28          |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1  | 10       | 7.28          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 2        | 7.28          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 4        | 7.28          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 13       | 7.28          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 13       | 7.28          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 18       | 7.28          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 19       | 7.28          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2  | 15       | 7.28          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3  | 15       | 7.28          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2  | 14       | 7.28          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3  | 14       | 7.28          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 3        | 7.28          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 3        | 7.28          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 4        | 7.28          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 4        | 7.28          |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3  | 6        | 7.28          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 16       | 7.28          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 18       | 7.28          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 19       | 7.28          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 4        | 7.28          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 10       | 7.28          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H    | 4        | 7.28          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 19       | 7.28          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 19       | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 7        | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD12 | 7        | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD13 | 7        | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD21 | 7        | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD22 | 7        | 7.28          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD23 | 7        | 7.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 12       | 7.28          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 12       | 7.28          |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 3        | 7.28          |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 3        | 7.28          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 13       | 7.28          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H   | 3        | 7.28          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H   | 4        | 7.28          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H   | 6        | 7.28          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 15       | 7.28          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3 | 13       | 7.28          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3 | 4        | 7.28          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 12       | 7.28          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H   | 7        | 7.28          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 12       | 7.28          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 12       | 7.28          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 2        | 7.28          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 3        | 7.28          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 10       | 7.28          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA   | 18       | 7.28          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2  | 17       | 7.28          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 10       | 7.28          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 15       | 7.28          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 15       | 7.28          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 12       | 7.28          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 17       | 7.28          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 14       | 7.28          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2 | 15       | 7.27          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3 | 15       | 7.27          |
| (1,569)  | 1:A:1:SER:HB2  | 1:A:23:TYR:H   | 9        | 7.27          |
| (1,569)  | 1:A:1:SER:HB3  | 1:A:23:TYR:H   | 9        | 7.27          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 12       | 7.27          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 16       | 7.27          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 3        | 7.27          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 14       | 7.27          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 14       | 7.27          |
| (1,4517) | 1:A:25:TYR:H   | 1:A:31:LYS:HB3 | 20       | 7.27          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2 | 9        | 7.27          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3 | 9        | 7.27          |
| (1,4453) | 1:A:24:GLY:H   | 1:A:31:LYS:HB3 | 4        | 7.27          |
| (1,4453) | 1:A:24:GLY:H   | 1:A:31:LYS:HB3 | 17       | 7.27          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H   | 18       | 7.27          |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H   | 18       | 7.27          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 17       | 7.27          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 17       | 7.27          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 17       | 7.27          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 17       | 7.27          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 5        | 7.27          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 5        | 7.27          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 10       | 7.27          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 10       | 7.27          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 16       | 7.27          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 16       | 7.27          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 8        | 7.27          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 8        | 7.27          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 20       | 7.27          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 9        | 7.27          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 13       | 7.27          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 15       | 7.27          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 9        | 7.27          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 14       | 7.27          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 10       | 7.27          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 18       | 7.27          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 18       | 7.27          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 3        | 7.27          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 11       | 7.27          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 6        | 7.27          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 6        | 7.27          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 1        | 7.27          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 1        | 7.27          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 1        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 3        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 3        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 3        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 7        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 7        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 7        | 7.27          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 13       | 7.27          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 13       | 7.27          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 13       | 7.27          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 19       | 7.27          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 19       | 7.27          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 19       | 7.27          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 2        | 7.27          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 2        | 7.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2  | 6        | 7.27          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3  | 6        | 7.27          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3  | 2        | 7.27          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3  | 2        | 7.27          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA   | 17       | 7.27          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 18       | 7.27          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 18       | 7.27          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 11       | 7.27          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 15       | 7.27          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3  | 17       | 7.27          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 18       | 7.27          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 16       | 7.27          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 16       | 7.27          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 13       | 7.27          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 1        | 7.27          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 5        | 7.27          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 5        | 7.27          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 18       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 18       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 18       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 18       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 19       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 19       | 7.27          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 19       | 7.27          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 7        | 7.27          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 6        | 7.27          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 19       | 7.27          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 5        | 7.27          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H    | 7        | 7.27          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 16       | 7.27          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 14       | 7.26          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 20       | 7.26          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H    | 7        | 7.26          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 19       | 7.26          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 14       | 7.26          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 4        | 7.26          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB2  | 12       | 7.26          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB3  | 12       | 7.26          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2  | 9        | 7.26          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3  | 9        | 7.26          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1  | 3        | 7.26          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2  | 3        | 7.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3 | 3        | 7.26          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1 | 6        | 7.26          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2 | 6        | 7.26          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3 | 6        | 7.26          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 13       | 7.26          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 13       | 7.26          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 11       | 7.26          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 11       | 7.26          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 11       | 7.26          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 11       | 7.26          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 3        | 7.26          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG2 | 20       | 7.26          |
| (1,4472) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HG3 | 20       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 17       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 17       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 17       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 17       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 17       | 7.26          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 17       | 7.26          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 20       | 7.26          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 20       | 7.26          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 18       | 7.26          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 18       | 7.26          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 20       | 7.26          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 20       | 7.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 19       | 7.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 19       | 7.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 19       | 7.26          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 15       | 7.26          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 15       | 7.26          |
| (1,4279) | 1:A:22:GLN:HE21 | 1:A:27:GLY:H   | 16       | 7.26          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 8        | 7.26          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 1        | 7.26          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 15       | 7.26          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 5        | 7.26          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 11       | 7.26          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 18       | 7.26          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 3        | 7.26          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 3        | 7.26          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 4        | 7.26          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 3        | 7.26          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 9        | 7.26          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1  | 5        | 7.26          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2  | 5        | 7.26          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2  | 15       | 7.26          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2  | 16       | 7.26          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 9        | 7.26          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 9        | 7.26          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 9        | 7.26          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 6        | 7.26          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 6        | 7.26          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 9        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 1        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 1        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 1        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 8        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 8        | 7.26          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 8        | 7.26          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H    | 4        | 7.26          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H    | 4        | 7.26          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H    | 4        | 7.26          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 15       | 7.26          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 10       | 7.26          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 10       | 7.26          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2  | 13       | 7.26          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3  | 13       | 7.26          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 14       | 7.26          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE   | 2        | 7.26          |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG   | 16       | 7.26          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2  | 2        | 7.26          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3  | 2        | 7.26          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 7        | 7.26          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 7        | 7.26          |
| (1,2749) | 1:A:11:TRP:HD1  | 1:A:25:TYR:HB3  | 1        | 7.26          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 10       | 7.26          |
| (1,2330) | 1:A:9:PRO:HG2   | 1:A:24:GLY:H    | 9        | 7.26          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H    | 9        | 7.26          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H    | 20       | 7.26          |
| (1,2017) | 1:A:7:CYS:HB2   | 1:A:33:CYS:H    | 14       | 7.26          |
| (1,2017) | 1:A:7:CYS:HB3   | 1:A:33:CYS:H    | 14       | 7.26          |
| (1,1941) | 1:A:7:CYS:H     | 1:A:19:CYS:HB3  | 17       | 7.26          |
| (1,1930) | 1:A:7:CYS:H     | 1:A:15:ARG:HB2  | 20       | 7.26          |
| (1,1930) | 1:A:7:CYS:H     | 1:A:15:ARG:HB3  | 20       | 7.26          |
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD11 | 5        | 7.26          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD12 | 5        | 7.26          |
| (1,1883) | 1:A:6:GLN:HE22  | 1:A:18:LEU:HD13 | 5        | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 7        | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 7        | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 8        | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 8        | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 12       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 12       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 16       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 16       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 18       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 18       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 19       | 7.26          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 19       | 7.26          |
| (1,1697) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HA    | 5        | 7.26          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE1  | 15       | 7.26          |
| (1,1570) | 1:A:6:GLN:HA    | 1:A:23:TYR:HE2  | 15       | 7.26          |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2  | 3        | 7.26          |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3  | 12       | 7.26          |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H    | 13       | 7.26          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD1  | 11       | 7.26          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD2  | 11       | 7.26          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 18       | 7.26          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2  | 19       | 7.25          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H    | 20       | 7.25          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2  | 10       | 7.25          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3  | 10       | 7.25          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 17       | 7.25          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2  | 3        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2  | 3        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3  | 3        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3  | 3        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2  | 5        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2  | 5        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3  | 5        | 7.25          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3  | 5        | 7.25          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 20       | 7.25          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 20       | 7.25          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA   | 10       | 7.25          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2  | 16       | 7.25          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 16       | 7.25          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 12       | 7.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 12       | 7.25          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 9        | 7.25          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 15       | 7.25          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 1        | 7.25          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 2        | 7.25          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 15       | 7.25          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 15       | 7.25          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 20       | 7.25          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 9        | 7.25          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 15       | 7.25          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 5        | 7.25          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 5        | 7.25          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 8        | 7.25          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 11       | 7.25          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 4        | 7.25          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 5        | 7.25          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 5        | 7.25          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 3        | 7.25          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 3        | 7.25          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 18       | 7.25          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 18       | 7.25          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 18       | 7.25          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 20       | 7.25          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 20       | 7.25          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 20       | 7.25          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 15       | 7.25          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 17       | 7.25          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD2 | 14       | 7.25          |
| (1,3749) | 1:A:18:LEU:HG   | 1:A:30:PRO:HD3 | 14       | 7.25          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 10       | 7.25          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 10       | 7.25          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H   | 5        | 7.25          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 19       | 7.25          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 19       | 7.25          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 19       | 7.25          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 17       | 7.25          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 6        | 7.25          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 11       | 7.25          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 11       | 7.25          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 19       | 7.25          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 19       | 7.25          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 3        | 7.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H    | 3        | 7.25          |
| (1,3381) | 1:A:15:ARG:HG2 | 1:A:29:GLY:H    | 16       | 7.25          |
| (1,3381) | 1:A:15:ARG:HG3 | 1:A:29:GLY:H    | 16       | 7.25          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1  | 12       | 7.25          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2  | 12       | 7.25          |
| (1,3261) | 1:A:15:ARG:H   | 1:A:21:SER:HG   | 15       | 7.25          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 11       | 7.25          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 18       | 7.25          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 19       | 7.25          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 15       | 7.25          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 16       | 7.25          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 16       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 13       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 13       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 13       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 17       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 17       | 7.25          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 17       | 7.25          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 13       | 7.25          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 13       | 7.25          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 2        | 7.25          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 5        | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 15       | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 15       | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 15       | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 15       | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 15       | 7.25          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 15       | 7.25          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 7        | 7.25          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 8        | 7.25          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 18       | 7.25          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 19       | 7.25          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 5        | 7.25          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 10       | 7.25          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 11       | 7.25          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 9        | 7.25          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 1        | 7.25          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 1        | 7.25          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 13       | 7.25          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 9        | 7.25          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 9        | 7.25          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 4        | 7.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA  | 3        | 7.25          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H   | 4        | 7.25          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 7        | 7.24          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 7        | 7.24          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 7        | 7.24          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 7        | 7.24          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3 | 16       | 7.24          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3 | 16       | 7.24          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 19       | 7.24          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 5        | 7.24          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 5        | 7.24          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 1        | 7.24          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 18       | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 5        | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 5        | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 5        | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 17       | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 17       | 7.24          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 17       | 7.24          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 12       | 7.24          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 13       | 7.24          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 13       | 7.24          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 13       | 7.24          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 9        | 7.24          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 9        | 7.24          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 9        | 7.24          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 9        | 7.24          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H   | 6        | 7.24          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA2 | 16       | 7.24          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA2 | 16       | 7.24          |
| (1,4422) | 1:A:23:TYR:HE1 | 1:A:29:GLY:HA3 | 16       | 7.24          |
| (1,4422) | 1:A:23:TYR:HE2 | 1:A:29:GLY:HA3 | 16       | 7.24          |
| (1,4399) | 1:A:23:TYR:HD1 | 1:A:29:GLY:HA3 | 14       | 7.24          |
| (1,4399) | 1:A:23:TYR:HD2 | 1:A:29:GLY:HA3 | 14       | 7.24          |
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB2 | 20       | 7.24          |
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB3 | 20       | 7.24          |
| (1,4252) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HA  | 10       | 7.24          |
| (1,4250) | 1:A:22:GLN:HG3 | 1:A:25:TYR:HB3 | 13       | 7.24          |
| (1,4171) | 1:A:22:GLN:HB2 | 1:A:26:CYS:H   | 7        | 7.24          |
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 19       | 7.24          |
| (1,4079) | 1:A:21:SER:HG  | 1:A:29:GLY:H   | 20       | 7.24          |
| (1,4042) | 1:A:21:SER:H   | 1:A:34:ALA:HA  | 2        | 7.24          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H    | 7        | 7.24          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H    | 13       | 7.24          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 11       | 7.24          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2  | 12       | 7.24          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 3        | 7.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 2        | 7.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 2        | 7.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 2        | 7.24          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 2        | 7.24          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 4        | 7.24          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 13       | 7.24          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H    | 2        | 7.24          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H    | 2        | 7.24          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H    | 2        | 7.24          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 7        | 7.24          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 7        | 7.24          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 7        | 7.24          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H    | 5        | 7.24          |
| (1,3662) | 1:A:18:LEU:H    | 1:A:34:ALA:H    | 6        | 7.24          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1  | 18       | 7.24          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2  | 18       | 7.24          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3  | 18       | 7.24          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 3        | 7.24          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2  | 19       | 7.24          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3  | 19       | 7.24          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H    | 10       | 7.24          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H    | 10       | 7.24          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H    | 3        | 7.24          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 5        | 7.24          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA   | 14       | 7.24          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 8        | 7.24          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 12       | 7.24          |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG   | 13       | 7.24          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 12       | 7.24          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 12       | 7.24          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 3        | 7.24          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 6        | 7.24          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 13       | 7.24          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD12 | 13       | 7.24          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD13 | 13       | 7.24          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD21 | 13       | 7.24          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD22 | 13       | 7.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 13       | 7.24          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 6        | 7.24          |
| (1,2249) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE3  | 13       | 7.24          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 16       | 7.24          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 2        | 7.24          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 8        | 7.24          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 19       | 7.24          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 2        | 7.24          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 2        | 7.24          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 3        | 7.24          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 13       | 7.24          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 2        | 7.24          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 2        | 7.24          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 4        | 7.24          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 4        | 7.24          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 9        | 7.24          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 9        | 7.24          |
| (1,1872) | 1:A:6:GLN:HE22 | 1:A:12:GLY:HA3  | 17       | 7.24          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 17       | 7.24          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 17       | 7.24          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 20       | 7.24          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 20       | 7.24          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 5        | 7.24          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 6        | 7.24          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 11       | 7.24          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 12       | 7.24          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1  | 9        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 4        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 4        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 4        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 4        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 4        | 7.24          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 4        | 7.24          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 16       | 7.24          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 16       | 7.24          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 3        | 7.24          |
| (1,895)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:H    | 9        | 7.23          |
| (1,895)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:H    | 9        | 7.23          |
| (1,844)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ2  | 18       | 7.23          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 8        | 7.23          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 8        | 7.23          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 18       | 7.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1 | 18       | 7.23          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 8        | 7.23          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ1 | 19       | 7.23          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ2 | 19       | 7.23          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ3 | 19       | 7.23          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 7        | 7.23          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 3        | 7.23          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 13       | 7.23          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 13       | 7.23          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 3        | 7.23          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 3        | 7.23          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 7        | 7.23          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 7        | 7.23          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 9        | 7.23          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 9        | 7.23          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 19       | 7.23          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 19       | 7.23          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 17       | 7.23          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 13       | 7.23          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 1        | 7.23          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3 | 1        | 7.23          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 4        | 7.23          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 4        | 7.23          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H   | 17       | 7.23          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 14       | 7.23          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3 | 14       | 7.23          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 18       | 7.23          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 3        | 7.23          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 3        | 7.23          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 3        | 7.23          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 6        | 7.23          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 16       | 7.23          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 18       | 7.23          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 19       | 7.23          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 20       | 7.23          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 16       | 7.23          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 16       | 7.23          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 6        | 7.23          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 15       | 7.23          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 15       | 7.23          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 15       | 7.23          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 10       | 7.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H    | 10       | 7.23          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H    | 10       | 7.23          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 4        | 7.23          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 5        | 7.23          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H    | 9        | 7.23          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 3        | 7.23          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 3        | 7.23          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2  | 14       | 7.23          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 9        | 7.23          |
| (1,3119) | 1:A:13:GLY:H    | 1:A:27:GLY:H    | 7        | 7.23          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 15       | 7.23          |
| (1,3093) | 1:A:13:GLY:H    | 1:A:18:LEU:HG   | 1        | 7.23          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2  | 4        | 7.23          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3  | 4        | 7.23          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 6        | 7.23          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 6        | 7.23          |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 11       | 7.23          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 20       | 7.23          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 20       | 7.23          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H    | 3        | 7.23          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 14       | 7.23          |
| (1,2121) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HB3  | 1        | 7.23          |
| (1,2121) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HB3  | 11       | 7.23          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB2  | 4        | 7.23          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB3  | 4        | 7.23          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 2        | 7.23          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 5        | 7.23          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 9        | 7.23          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 10       | 7.23          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 11       | 7.23          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD3   | 11       | 7.23          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD11 | 7        | 7.23          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD12 | 7        | 7.23          |
| (1,1816) | 1:A:6:GLN:HE21  | 1:A:18:LEU:HD13 | 7        | 7.23          |
| (1,1771) | 1:A:6:GLN:HG3   | 1:A:27:GLY:HA2  | 9        | 7.23          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1  | 7        | 7.23          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2  | 7        | 7.23          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1  | 19       | 7.23          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2  | 19       | 7.23          |
| (1,1330) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HE1  | 4        | 7.23          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 7        | 7.23          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 19       | 7.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 3        | 7.22          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 11       | 7.22          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 11       | 7.22          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2 | 16       | 7.22          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3 | 16       | 7.22          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 6        | 7.22          |
| (1,4662) | 1:A:26:CYS:HB2  | 1:A:33:CYS:H   | 14       | 7.22          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 1        | 7.22          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 1        | 7.22          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 7        | 7.22          |
| (1,4453) | 1:A:24:GLY:H    | 1:A:31:LYS:HB3 | 15       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 20       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 20       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 20       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 20       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 20       | 7.22          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 20       | 7.22          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 12       | 7.22          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 14       | 7.22          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 1        | 7.22          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 5        | 7.22          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 6        | 7.22          |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1 | 6        | 7.22          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 13       | 7.22          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 17       | 7.22          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 17       | 7.22          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 10       | 7.22          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 12       | 7.22          |
| (1,4079) | 1:A:21:SER:HG   | 1:A:29:GLY:H   | 16       | 7.22          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 11       | 7.22          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 17       | 7.22          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 2        | 7.22          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 4        | 7.22          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 6        | 7.22          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 18       | 7.22          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 18       | 7.22          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 20       | 7.22          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 20       | 7.22          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 18       | 7.22          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 18       | 7.22          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 5        | 7.22          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 5        | 7.22          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 5        | 7.22          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 11       | 7.22          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 11       | 7.22          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 11       | 7.22          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 10       | 7.22          |
| (1,3352) | 1:A:15:ARG:HB3  | 1:A:33:CYS:HA   | 15       | 7.22          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 5        | 7.22          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 6        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 3        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 3        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 4        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 4        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 5        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 5        | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 10       | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 10       | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 12       | 7.22          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 12       | 7.22          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 12       | 7.22          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 12       | 7.22          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 8        | 7.22          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 8        | 7.22          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 9        | 7.22          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 9        | 7.22          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2  | 15       | 7.22          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3  | 15       | 7.22          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB2  | 16       | 7.22          |
| (1,2639) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HB3  | 16       | 7.22          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 4        | 7.22          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H    | 14       | 7.22          |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG2  | 11       | 7.22          |
| (1,2617) | 1:A:11:TRP:HA   | 1:A:15:ARG:HG3  | 11       | 7.22          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H    | 14       | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD11 | 1        | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD12 | 1        | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD13 | 1        | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD21 | 1        | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD22 | 1        | 7.22          |
| (1,2587) | 1:A:11:TRP:H    | 1:A:18:LEU:HD23 | 1        | 7.22          |
| (1,2144) | 1:A:9:PRO:HA    | 1:A:11:TRP:HH2  | 13       | 7.22          |
| (1,2041) | 1:A:8:GLY:H     | 1:A:19:CYS:HB3  | 20       | 7.22          |
| (1,1868) | 1:A:6:GLN:HE22  | 1:A:9:PRO:HD2   | 13       | 7.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 13       | 7.22          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 10       | 7.22          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 2        | 7.22          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 9        | 7.22          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 1        | 7.22          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE1  | 14       | 7.22          |
| (1,1570) | 1:A:6:GLN:HA   | 1:A:23:TYR:HE2  | 14       | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 3        | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 3        | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 3        | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 3        | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 3        | 7.22          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 3        | 7.22          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 14       | 7.22          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 4        | 7.22          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 11       | 7.22          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 3        | 7.22          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 2        | 7.22          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 2        | 7.22          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 4        | 7.21          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2  | 12       | 7.21          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3  | 12       | 7.21          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 16       | 7.21          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 16       | 7.21          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 16       | 7.21          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 16       | 7.21          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 6        | 7.21          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA   | 1        | 7.21          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1  | 11       | 7.21          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2  | 11       | 7.21          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3  | 11       | 7.21          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1  | 16       | 7.21          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2  | 16       | 7.21          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3  | 16       | 7.21          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2  | 20       | 7.21          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3  | 20       | 7.21          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2  | 16       | 7.21          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3  | 16       | 7.21          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 9        | 7.21          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 9        | 7.21          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2  | 8        | 7.21          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3  | 8        | 7.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 3        | 7.21          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 8        | 7.21          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 8        | 7.21          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 9        | 7.21          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 9        | 7.21          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 4        | 7.21          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 4        | 7.21          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 4        | 7.21          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 4        | 7.21          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 2        | 7.21          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 2        | 7.21          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 3        | 7.21          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 4        | 7.21          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 17       | 7.21          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 2        | 7.21          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 6        | 7.21          |
| (1,4101) | 1:A:21:SER:HG   | 1:A:35:HIS:HE1 | 19       | 7.21          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 3        | 7.21          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 6        | 7.21          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 6        | 7.21          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 6        | 7.21          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 11       | 7.21          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 19       | 7.21          |
| (1,3995) | 1:A:20:CYS:HB3  | 1:A:28:SER:H   | 1        | 7.21          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 13       | 7.21          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB2 | 19       | 7.21          |
| (1,3933) | 1:A:20:CYS:H    | 1:A:30:PRO:HB3 | 19       | 7.21          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 11       | 7.21          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 11       | 7.21          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 11       | 7.21          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 13       | 7.21          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 13       | 7.21          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 7        | 7.21          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 9        | 7.21          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 11       | 7.21          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 19       | 7.21          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 11       | 7.21          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 11       | 7.21          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 11       | 7.21          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 3        | 7.21          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2 | 1        | 7.21          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3 | 1        | 7.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 7        | 7.21          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB2  | 2        | 7.21          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB3  | 2        | 7.21          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 1        | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 11       | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 11       | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 11       | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 11       | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 11       | 7.21          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 11       | 7.21          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 10       | 7.21          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 12       | 7.21          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 14       | 7.21          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 9        | 7.21          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 4        | 7.21          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 6        | 7.21          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 7        | 7.21          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 8        | 7.21          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 8        | 7.21          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 10       | 7.21          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 10       | 7.21          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 10       | 7.21          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 2        | 7.21          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 6        | 7.21          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 10       | 7.21          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 9        | 7.21          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 9        | 7.21          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 9        | 7.21          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 15       | 7.21          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 19       | 7.21          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 7        | 7.21          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 7        | 7.21          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 12       | 7.21          |
| (1,1564) | 1:A:6:GLN:HA   | 1:A:22:GLN:HG2  | 15       | 7.21          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE   | 11       | 7.21          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 3        | 7.21          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 3        | 7.21          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 12       | 7.21          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 20       | 7.21          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 3        | 7.21          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 4        | 7.21          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 2        | 7.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 17       | 7.2           |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 17       | 7.2           |
| (1,587)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HB3 | 10       | 7.2           |
| (1,587)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HB3 | 10       | 7.2           |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 7        | 7.2           |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1 | 1        | 7.2           |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2 | 1        | 7.2           |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3 | 1        | 7.2           |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 16       | 7.2           |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 15       | 7.2           |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 15       | 7.2           |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 5        | 7.2           |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 8        | 7.2           |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 16       | 7.2           |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 17       | 7.2           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 10       | 7.2           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 10       | 7.2           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 5        | 7.2           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 5        | 7.2           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 11       | 7.2           |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 11       | 7.2           |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 3        | 7.2           |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 4        | 7.2           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 10       | 7.2           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 10       | 7.2           |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 10       | 7.2           |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 10       | 7.2           |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 3        | 7.2           |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 3        | 7.2           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 2        | 7.2           |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 2        | 7.2           |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 12       | 7.2           |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 12       | 7.2           |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 12       | 7.2           |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 12       | 7.2           |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 12       | 7.2           |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 15       | 7.2           |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 14       | 7.2           |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 14       | 7.2           |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 4        | 7.2           |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 12       | 7.2           |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 2        | 7.2           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2  | 4        | 7.2           |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2  | 4        | 7.2           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 3        | 7.2           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 3        | 7.2           |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 20       | 7.2           |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 10       | 7.2           |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 14       | 7.2           |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 8        | 7.2           |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 8        | 7.2           |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA   | 15       | 7.2           |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 4        | 7.2           |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H    | 15       | 7.2           |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 6        | 7.2           |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 12       | 7.2           |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 18       | 7.2           |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 19       | 7.2           |
| (1,2013) | 1:A:7:CYS:HB2  | 1:A:32:TYR:H    | 17       | 7.2           |
| (1,2013) | 1:A:7:CYS:HB3  | 1:A:32:TYR:H    | 17       | 7.2           |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H    | 1        | 7.2           |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 8        | 7.2           |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 16       | 7.2           |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2  | 18       | 7.2           |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 18       | 7.2           |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 18       | 7.2           |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 19       | 7.2           |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 19       | 7.2           |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 13       | 7.2           |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 1        | 7.2           |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 11       | 7.2           |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 13       | 7.2           |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 13       | 7.2           |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H    | 10       | 7.2           |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 18       | 7.2           |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 18       | 7.2           |
| (1,1153) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HA   | 4        | 7.2           |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 6        | 7.2           |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 14       | 7.2           |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 14       | 7.2           |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 14       | 7.2           |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 20       | 7.19          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 4        | 7.19          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 4        | 7.19          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 4        | 7.19          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 4        | 7.19          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 9        | 7.19          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 10       | 7.19          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 14       | 7.19          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 8        | 7.19          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 13       | 7.19          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2 | 19       | 7.19          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 1        | 7.19          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 1        | 7.19          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 2        | 7.19          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 2        | 7.19          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 2        | 7.19          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 2        | 7.19          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 17       | 7.19          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 17       | 7.19          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 17       | 7.19          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 1        | 7.19          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 1        | 7.19          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 3        | 7.19          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 3        | 7.19          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 18       | 7.19          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 18       | 7.19          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 15       | 7.19          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 16       | 7.19          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 10       | 7.19          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 8        | 7.19          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 5        | 7.19          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 6        | 7.19          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 19       | 7.19          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 20       | 7.19          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 2        | 7.19          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 2        | 7.19          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 2        | 7.19          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 3        | 7.19          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 10       | 7.19          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 10       | 7.19          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 15       | 7.19          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 15       | 7.19          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2 | 11       | 7.19          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3 | 11       | 7.19          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 17       | 7.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H    | 20       | 7.19          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H    | 20       | 7.19          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H    | 5        | 7.19          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 5        | 7.19          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 5        | 7.19          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD1  | 8        | 7.19          |
| (1,3269) | 1:A:15:ARG:H   | 1:A:25:TYR:HD2  | 8        | 7.19          |
| (1,3188) | 1:A:14:CYS:H   | 1:A:28:SER:H    | 17       | 7.19          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 7        | 7.19          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 16       | 7.19          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 18       | 7.19          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 19       | 7.19          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 14       | 7.19          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 4        | 7.19          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2  | 3        | 7.19          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3  | 3        | 7.19          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 20       | 7.19          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 20       | 7.19          |
| (1,2741) | 1:A:11:TRP:HD1 | 1:A:21:SER:HG   | 17       | 7.19          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 7        | 7.19          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 7        | 7.19          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 7        | 7.19          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 7        | 7.19          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 2        | 7.19          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 11       | 7.19          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2  | 10       | 7.19          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 11       | 7.19          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 15       | 7.19          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 5        | 7.19          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 5        | 7.19          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 8        | 7.19          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 16       | 7.19          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 9        | 7.19          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 9        | 7.19          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 9        | 7.19          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 9        | 7.19          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 17       | 7.19          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 17       | 7.19          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 15       | 7.19          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 15       | 7.19          |
| (1,1824) | 1:A:6:GLN:HE21 | 1:A:21:SER:HG   | 5        | 7.19          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD11 | 20       | 7.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD12 | 20       | 7.19          |
| (1,1816) | 1:A:6:GLN:HE21 | 1:A:18:LEU:HD13 | 20       | 7.19          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 9        | 7.19          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 9        | 7.19          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 16       | 7.19          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 16       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 7        | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 8        | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 12       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 14       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 15       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 16       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 18       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 19       | 7.19          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 20       | 7.19          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 4        | 7.19          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 3        | 7.19          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 1        | 7.19          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 5        | 7.19          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 10       | 7.19          |
| (1,587)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HB3  | 9        | 7.18          |
| (1,587)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HB3  | 9        | 7.18          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 2        | 7.18          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 2        | 7.18          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 6        | 7.18          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 6        | 7.18          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H    | 2        | 7.18          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H    | 17       | 7.18          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1  | 19       | 7.18          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1  | 19       | 7.18          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1  | 9        | 7.18          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2  | 9        | 7.18          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3  | 9        | 7.18          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 3        | 7.18          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 3        | 7.18          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 3        | 7.18          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H    | 15       | 7.18          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA   | 15       | 7.18          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA   | 15       | 7.18          |
| (1,4436) | 1:A:23:TYR:HE1 | 1:A:33:CYS:H    | 3        | 7.18          |
| (1,4436) | 1:A:23:TYR:HE2 | 1:A:33:CYS:H    | 3        | 7.18          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H    | 13       | 7.18          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 13       | 7.18          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 18       | 7.18          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 18       | 7.18          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 8        | 7.18          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 10       | 7.18          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 4        | 7.18          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 15       | 7.18          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 3        | 7.18          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 1        | 7.18          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 17       | 7.18          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 5        | 7.18          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 10       | 7.18          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE1 | 14       | 7.18          |
| (1,3873) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HE2 | 14       | 7.18          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 2        | 7.18          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 2        | 7.18          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 2        | 7.18          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 10       | 7.18          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H   | 11       | 7.18          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H   | 11       | 7.18          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 16       | 7.18          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 1        | 7.18          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 9        | 7.18          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 9        | 7.18          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 1        | 7.18          |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2 | 14       | 7.18          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H   | 12       | 7.18          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2 | 20       | 7.18          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3 | 20       | 7.18          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 11       | 7.18          |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H   | 18       | 7.18          |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H   | 19       | 7.18          |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H   | 20       | 7.18          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 6        | 7.18          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 6        | 7.18          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H   | 2        | 7.18          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H   | 10       | 7.18          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H   | 14       | 7.18          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2 | 2        | 7.18          |
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H   | 11       | 7.18          |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB2 | 1        | 7.18          |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB3 | 1        | 7.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 12       | 7.18          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 12       | 7.18          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 13       | 7.18          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 13       | 7.18          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 20       | 7.18          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 20       | 7.18          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 7        | 7.18          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 9        | 7.18          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 18       | 7.18          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 19       | 7.18          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2   | 9        | 7.18          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 14       | 7.18          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 6        | 7.18          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 6        | 7.18          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 14       | 7.18          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 11       | 7.18          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 13       | 7.18          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 13       | 7.18          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG   | 6        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 3        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 3        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 3        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 4        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 4        | 7.18          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 4        | 7.18          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 6        | 7.17          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 11       | 7.17          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 11       | 7.17          |
| (1,621)  | 1:A:2:GLY:H    | 1:A:15:ARG:HE   | 1        | 7.17          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1  | 3        | 7.17          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H    | 1        | 7.17          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H    | 7        | 7.17          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H    | 9        | 7.17          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE2  | 5        | 7.17          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE3  | 5        | 7.17          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE2  | 5        | 7.17          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE3  | 5        | 7.17          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2  | 1        | 7.17          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3  | 1        | 7.17          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2  | 1        | 7.17          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3  | 1        | 7.17          |
| (1,4570) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HB2  | 17       | 7.17          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2  | 17       | 7.17          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H    | 14       | 7.17          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3  | 1        | 7.17          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2  | 3        | 7.17          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3  | 3        | 7.17          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 20       | 7.17          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 14       | 7.17          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 6        | 7.17          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 6        | 7.17          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA   | 3        | 7.17          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 8        | 7.17          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 16       | 7.17          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 3        | 7.17          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 3        | 7.17          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 17       | 7.17          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 17       | 7.17          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 19       | 7.17          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 19       | 7.17          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 12       | 7.17          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 12       | 7.17          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 12       | 7.17          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 13       | 7.17          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2  | 13       | 7.17          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3  | 2        | 7.17          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 19       | 7.17          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 19       | 7.17          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H    | 6        | 7.17          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H    | 6        | 7.17          |
| (1,3316) | 1:A:15:ARG:HB2  | 1:A:33:CYS:HA   | 1        | 7.17          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2  | 2        | 7.17          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3  | 2        | 7.17          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2  | 4        | 7.17          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3  | 4        | 7.17          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG   | 11       | 7.17          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H    | 17       | 7.17          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 8        | 7.17          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 8        | 7.17          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 18       | 7.17          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 18       | 7.17          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 19       | 7.17          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 19       | 7.17          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 19       | 7.17          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 7        | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 7        | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 16       | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 16       | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 18       | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 18       | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 19       | 7.17          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 19       | 7.17          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA  | 1        | 7.17          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 7        | 7.17          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 8        | 7.17          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 16       | 7.17          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 5        | 7.17          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 1        | 7.17          |
| (1,2265) | 1:A:9:PRO:HB3  | 1:A:24:GLY:HA2 | 6        | 7.17          |
| (1,2142) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ3 | 13       | 7.17          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2 | 6        | 7.17          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3 | 6        | 7.17          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 15       | 7.17          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2 | 3        | 7.17          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2 | 3        | 7.17          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2 | 11       | 7.17          |
| (1,1771) | 1:A:6:GLN:HG3  | 1:A:27:GLY:HA2 | 20       | 7.17          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 8        | 7.17          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 8        | 7.17          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 8        | 7.17          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 15       | 7.17          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 16       | 7.17          |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H   | 20       | 7.17          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2  | 2        | 7.17          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2  | 5        | 7.17          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2  | 10       | 7.17          |
| (1,1550) | 1:A:6:GLN:HA   | 1:A:9:PRO:HG2  | 13       | 7.17          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 16       | 7.17          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 16       | 7.17          |
| (1,1470) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HE1 | 13       | 7.17          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 12       | 7.17          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 8        | 7.17          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 9        | 7.17          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 9        | 7.17          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 5        | 7.17          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H   | 14       | 7.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1 | 13       | 7.16          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2 | 13       | 7.16          |
| (1,844)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ2 | 9        | 7.16          |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H   | 4        | 7.16          |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H   | 4        | 7.16          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 17       | 7.16          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2 | 18       | 7.16          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 5        | 7.16          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 8        | 7.16          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 8        | 7.16          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 8        | 7.16          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 13       | 7.16          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 13       | 7.16          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 13       | 7.16          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 13       | 7.16          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 4        | 7.16          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ1 | 8        | 7.16          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ2 | 8        | 7.16          |
| (1,4476) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HZ3 | 8        | 7.16          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 15       | 7.16          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 15       | 7.16          |
| (1,4411) | 1:A:23:TYR:HD1  | 1:A:34:ALA:H   | 2        | 7.16          |
| (1,4411) | 1:A:23:TYR:HD2  | 1:A:34:ALA:H   | 2        | 7.16          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 2        | 7.16          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 2        | 7.16          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 7        | 7.16          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 7        | 7.16          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 7        | 7.16          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 2        | 7.16          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 4        | 7.16          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 5        | 7.16          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 14       | 7.16          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 16       | 7.16          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 18       | 7.16          |
| (1,3891) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HB2 | 17       | 7.16          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 19       | 7.16          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 19       | 7.16          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 6        | 7.16          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 6        | 7.16          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 12       | 7.16          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 16       | 7.16          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 16       | 7.16          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3373) | 1:A:15:ARG:HG2 | 1:A:25:TYR:HB3  | 14       | 7.16          |
| (1,3373) | 1:A:15:ARG:HG3 | 1:A:25:TYR:HB3  | 14       | 7.16          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H    | 6        | 7.16          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 6        | 7.16          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 6        | 7.16          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 2        | 7.16          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 3        | 7.16          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 14       | 7.16          |
| (1,3093) | 1:A:13:GLY:H   | 1:A:18:LEU:HG   | 3        | 7.16          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 13       | 7.16          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 9        | 7.16          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 9        | 7.16          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 18       | 7.16          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 20       | 7.16          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2  | 8        | 7.16          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3  | 8        | 7.16          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2  | 9        | 7.16          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3  | 9        | 7.16          |
| (1,2834) | 1:A:11:TRP:HE1 | 1:A:13:GLY:H    | 13       | 7.16          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 12       | 7.16          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 12       | 7.16          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 12       | 7.16          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H    | 9        | 7.16          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 4        | 7.16          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 4        | 7.16          |
| (1,2650) | 1:A:11:TRP:HB2 | 1:A:21:SER:HG   | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD11 | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD12 | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD13 | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD21 | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD22 | 17       | 7.16          |
| (1,2587) | 1:A:11:TRP:H   | 1:A:18:LEU:HD23 | 17       | 7.16          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 14       | 7.16          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 1        | 7.16          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 1        | 7.16          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 15       | 7.16          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 15       | 7.16          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 14       | 7.16          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 14       | 7.16          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD2   | 9        | 7.16          |
| (1,1868) | 1:A:6:GLN:HE22 | 1:A:9:PRO:HD3   | 9        | 7.16          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 15       | 7.16          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1565) | 1:A:6:GLN:HA    | 1:A:22:GLN:HB3  | 15       | 7.16          |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB2  | 11       | 7.16          |
| (1,1557) | 1:A:6:GLN:HA    | 1:A:15:ARG:HB3  | 11       | 7.16          |
| (1,1550) | 1:A:6:GLN:HA    | 1:A:9:PRO:HG2   | 3        | 7.16          |
| (1,1550) | 1:A:6:GLN:HA    | 1:A:9:PRO:HG2   | 4        | 7.16          |
| (1,1550) | 1:A:6:GLN:HA    | 1:A:9:PRO:HG2   | 6        | 7.16          |
| (1,1517) | 1:A:6:GLN:H     | 1:A:19:CYS:H    | 17       | 7.16          |
| (1,1419) | 1:A:5:GLY:H     | 1:A:18:LEU:HG   | 6        | 7.16          |
| (1,1411) | 1:A:5:GLY:H     | 1:A:13:GLY:HA3  | 4        | 7.16          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 5        | 7.16          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 6        | 7.16          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 6        | 7.16          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 6        | 7.16          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2  | 18       | 7.15          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3  | 18       | 7.15          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2  | 13       | 7.15          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1  | 18       | 7.15          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2  | 18       | 7.15          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3  | 18       | 7.15          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H    | 15       | 7.15          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H    | 12       | 7.15          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3  | 14       | 7.15          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 2        | 7.15          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 3        | 7.15          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 5        | 7.15          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 3        | 7.15          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 5        | 7.15          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 9        | 7.15          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 18       | 7.15          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H    | 5        | 7.15          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2  | 7        | 7.15          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3  | 7        | 7.15          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2  | 13       | 7.15          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3  | 13       | 7.15          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 18       | 7.15          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2  | 7        | 7.15          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2  | 14       | 7.15          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1  | 6        | 7.15          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 12       | 7.15          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 7        | 7.15          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 13       | 7.15          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 13       | 7.15          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 13       | 7.15          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB2 | 1        | 7.15          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB2 | 1        | 7.15          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB2 | 1        | 7.15          |
| (1,3795) | 1:A:18:LEU:HD11 | 1:A:35:HIS:HB3 | 1        | 7.15          |
| (1,3795) | 1:A:18:LEU:HD12 | 1:A:35:HIS:HB3 | 1        | 7.15          |
| (1,3795) | 1:A:18:LEU:HD13 | 1:A:35:HIS:HB3 | 1        | 7.15          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 5        | 7.15          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 5        | 7.15          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 5        | 7.15          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 2        | 7.15          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 2        | 7.15          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 17       | 7.15          |
| (1,3261) | 1:A:15:ARG:H    | 1:A:21:SER:HG  | 13       | 7.15          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 10       | 7.15          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2 | 7        | 7.15          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3 | 7        | 7.15          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2 | 13       | 7.15          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3 | 13       | 7.15          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H   | 7        | 7.15          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H   | 8        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 1        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 2        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 3        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 4        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 5        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 6        | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 10       | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 11       | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 12       | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 14       | 7.15          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 15       | 7.15          |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H   | 12       | 7.15          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 13       | 7.15          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 13       | 7.15          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H   | 3        | 7.15          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H   | 6        | 7.15          |
| (1,2395) | 1:A:9:PRO:HG3   | 1:A:24:GLY:H   | 5        | 7.15          |
| (1,2367) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HZ2 | 2        | 7.15          |
| (1,2367) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HZ2 | 5        | 7.15          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2 | 3        | 7.15          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2 | 5        | 7.15          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2201) | 1:A:9:PRO:HB2   | 1:A:13:GLY:H    | 1        | 7.15          |
| (1,1863) | 1:A:6:GLN:HE22  | 1:A:8:GLY:H     | 3        | 7.15          |
| (1,1798) | 1:A:6:GLN:HE21  | 1:A:10:GLY:H    | 15       | 7.15          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA2  | 15       | 7.15          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA3  | 15       | 7.15          |
| (1,1664) | 1:A:6:GLN:HB3   | 1:A:27:GLY:H    | 1        | 7.15          |
| (1,1564) | 1:A:6:GLN:HA    | 1:A:22:GLN:HG2  | 10       | 7.15          |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H    | 1        | 7.15          |
| (1,1419) | 1:A:5:GLY:H     | 1:A:18:LEU:HG   | 3        | 7.15          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2  | 20       | 7.15          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD11 | 6        | 7.15          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD12 | 6        | 7.15          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD13 | 6        | 7.15          |
| (1,1216) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HA   | 3        | 7.15          |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H    | 4        | 7.15          |
| (1,1077) | 1:A:4:ASN:H     | 1:A:21:SER:HG   | 10       | 7.15          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1  | 12       | 7.14          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2  | 12       | 7.14          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1  | 12       | 7.14          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2  | 12       | 7.14          |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H    | 3        | 7.14          |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H    | 3        | 7.14          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 7        | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1  | 19       | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2  | 19       | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3  | 19       | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1  | 20       | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2  | 20       | 7.14          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3  | 20       | 7.14          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2  | 9        | 7.14          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3  | 9        | 7.14          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H    | 11       | 7.14          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA   | 11       | 7.14          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA   | 11       | 7.14          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2  | 1        | 7.14          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 6        | 7.14          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 2        | 7.14          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 14       | 7.14          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H    | 20       | 7.14          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H    | 9        | 7.14          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2  | 8        | 7.14          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2  | 9        | 7.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 12       | 7.14          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 17       | 7.14          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 19       | 7.14          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3 | 16       | 7.14          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 6        | 7.14          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 6        | 7.14          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 20       | 7.14          |
| (1,3817) | 1:A:18:LEU:HD21 | 1:A:34:ALA:HA  | 14       | 7.14          |
| (1,3817) | 1:A:18:LEU:HD22 | 1:A:34:ALA:HA  | 14       | 7.14          |
| (1,3817) | 1:A:18:LEU:HD23 | 1:A:34:ALA:HA  | 14       | 7.14          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 1        | 7.14          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 1        | 7.14          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 1        | 7.14          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 17       | 7.14          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 17       | 7.14          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 17       | 7.14          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 5        | 7.14          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 6        | 7.14          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 3        | 7.14          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H   | 4        | 7.14          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2 | 16       | 7.14          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3 | 16       | 7.14          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 7        | 7.14          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 16       | 7.14          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 18       | 7.14          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H   | 19       | 7.14          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H   | 16       | 7.14          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2 | 6        | 7.14          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3 | 6        | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 7        | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 8        | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 9        | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 16       | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 18       | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 19       | 7.14          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H   | 20       | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 2        | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 2        | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 3        | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 3        | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 5        | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 5        | 7.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2 | 10       | 7.14          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3 | 10       | 7.14          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 3        | 7.14          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 3        | 7.14          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 4        | 7.14          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 6        | 7.14          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 10       | 7.14          |
| (1,2324) | 1:A:9:PRO:HG2  | 1:A:22:GLN:HA  | 17       | 7.14          |
| (1,2201) | 1:A:9:PRO:HB2  | 1:A:13:GLY:H   | 13       | 7.14          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 16       | 7.14          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 1        | 7.14          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 1        | 7.14          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H   | 11       | 7.14          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H   | 11       | 7.14          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H   | 12       | 7.14          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H   | 12       | 7.14          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H   | 13       | 7.14          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H   | 13       | 7.14          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 5        | 7.14          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 5        | 7.14          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 6        | 7.14          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 6        | 7.14          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 9        | 7.14          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 3        | 7.14          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 2        | 7.14          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1 | 7        | 7.14          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2 | 7        | 7.14          |
| (1,1077) | 1:A:4:ASN:H    | 1:A:21:SER:HG  | 2        | 7.14          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB2 | 16       | 7.13          |
| (1,725)  | 1:A:2:GLY:HA3  | 1:A:18:LEU:HB3 | 16       | 7.13          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2 | 8        | 7.13          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3 | 8        | 7.13          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 13       | 7.13          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 13       | 7.13          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 13       | 7.13          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 13       | 7.13          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 4        | 7.13          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 4        | 7.13          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3 | 16       | 7.13          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1 | 19       | 7.13          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2 | 19       | 7.13          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3 | 19       | 7.13          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3  | 8        | 7.13          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2  | 18       | 7.13          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3  | 18       | 7.13          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD2  | 8        | 7.13          |
| (1,4619) | 1:A:26:CYS:H    | 1:A:31:LYS:HD3  | 8        | 7.13          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2  | 20       | 7.13          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3  | 20       | 7.13          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2  | 20       | 7.13          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3  | 20       | 7.13          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2  | 10       | 7.13          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2  | 10       | 7.13          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H    | 7        | 7.13          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H    | 8        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 3        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 3        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 3        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 3        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 3        | 7.13          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 3        | 7.13          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H    | 13       | 7.13          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H    | 13       | 7.13          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 4        | 7.13          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 10       | 7.13          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 6        | 7.13          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 20       | 7.13          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 20       | 7.13          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 5        | 7.13          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 5        | 7.13          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2  | 11       | 7.13          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 6        | 7.13          |
| (1,3937) | 1:A:20:CYS:H    | 1:A:31:LYS:HB3  | 18       | 7.13          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 6        | 7.13          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE21 | 2        | 7.13          |
| (1,3854) | 1:A:19:CYS:HA   | 1:A:22:GLN:HE22 | 2        | 7.13          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 7        | 7.13          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 7        | 7.13          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 7        | 7.13          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H    | 6        | 7.13          |
| (1,3572) | 1:A:17:GLY:H    | 1:A:29:GLY:HA3  | 16       | 7.13          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 4        | 7.13          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 18       | 7.13          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 18       | 7.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H   | 17       | 7.13          |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H   | 17       | 7.13          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 10       | 7.13          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 10       | 7.13          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H   | 4        | 7.13          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 9        | 7.13          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA  | 10       | 7.13          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB2 | 15       | 7.13          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB3 | 15       | 7.13          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 5        | 7.13          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 10       | 7.13          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2 | 16       | 7.13          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3 | 16       | 7.13          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 10       | 7.13          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 14       | 7.13          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 4        | 7.13          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 4        | 7.13          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 6        | 7.13          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 6        | 7.13          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 18       | 7.13          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 18       | 7.13          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 19       | 7.13          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 19       | 7.13          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 4        | 7.13          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 3        | 7.13          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 1        | 7.13          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 1        | 7.13          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 16       | 7.13          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 16       | 7.13          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 17       | 7.13          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 17       | 7.13          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3 | 8        | 7.13          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1 | 9        | 7.13          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 14       | 7.12          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 14       | 7.12          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 5        | 7.12          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 5        | 7.12          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1 | 13       | 7.12          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3 | 1        | 7.12          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3 | 15       | 7.12          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 16       | 7.12          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 16       | 7.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 2        | 7.12          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 13       | 7.12          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 15       | 7.12          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 17       | 7.12          |
| (1,4570) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HB2 | 15       | 7.12          |
| (1,4570) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HB2 | 15       | 7.12          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 9        | 7.12          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 19       | 7.12          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 17       | 7.12          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 1        | 7.12          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 15       | 7.12          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 17       | 7.12          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 13       | 7.12          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 2        | 7.12          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 19       | 7.12          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 7        | 7.12          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 10       | 7.12          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 10       | 7.12          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 9        | 7.12          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 9        | 7.12          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 10       | 7.12          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 7        | 7.12          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 1        | 7.12          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 1        | 7.12          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 1        | 7.12          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 13       | 7.12          |
| (1,4027) | 1:A:21:SER:H    | 1:A:28:SER:HB2 | 15       | 7.12          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 20       | 7.12          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 20       | 7.12          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 3        | 7.12          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 8        | 7.12          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 10       | 7.12          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 3        | 7.12          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 11       | 7.12          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 11       | 7.12          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 4        | 7.12          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 4        | 7.12          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 5        | 7.12          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 5        | 7.12          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 19       | 7.12          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 19       | 7.12          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 19       | 7.12          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 9        | 7.12          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 9        | 7.12          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 9        | 7.12          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 8        | 7.12          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 8        | 7.12          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 8        | 7.12          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3  | 5        | 7.12          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1  | 4        | 7.12          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2  | 4        | 7.12          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 8        | 7.12          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 9        | 7.12          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 20       | 7.12          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 9        | 7.12          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2  | 12       | 7.12          |
| (1,3288) | 1:A:15:ARG:HA   | 1:A:33:CYS:H    | 16       | 7.12          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 15       | 7.12          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 15       | 7.12          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE1  | 14       | 7.12          |
| (1,3243) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HE2  | 14       | 7.12          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 2        | 7.12          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H    | 10       | 7.12          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 3        | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 9        | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 9        | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 18       | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 18       | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 19       | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 19       | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 20       | 7.12          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 20       | 7.12          |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 2        | 7.12          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 17       | 7.12          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 17       | 7.12          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H    | 20       | 7.12          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 9        | 7.12          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2  | 12       | 7.12          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3  | 12       | 7.12          |
| (1,2834) | 1:A:11:TRP:HE1  | 1:A:13:GLY:H    | 17       | 7.12          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 15       | 7.12          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 15       | 7.12          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 15       | 7.12          |
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H    | 2        | 7.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2740) | 1:A:11:TRP:HD1  | 1:A:21:SER:H   | 5        | 7.12          |
| (1,2596) | 1:A:11:TRP:H    | 1:A:26:CYS:H   | 9        | 7.12          |
| (1,2091) | 1:A:8:GLY:HA2   | 1:A:26:CYS:HB2 | 11       | 7.12          |
| (1,2037) | 1:A:8:GLY:H     | 1:A:18:LEU:HB2 | 18       | 7.12          |
| (1,1987) | 1:A:7:CYS:HB2   | 1:A:16:GLY:H   | 17       | 7.12          |
| (1,1987) | 1:A:7:CYS:HB3   | 1:A:16:GLY:H   | 17       | 7.12          |
| (1,1983) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HH2 | 13       | 7.12          |
| (1,1983) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HH2 | 13       | 7.12          |
| (1,1798) | 1:A:6:GLN:HE21  | 1:A:10:GLY:H   | 13       | 7.12          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA2 | 1        | 7.12          |
| (1,1665) | 1:A:6:GLN:HB3   | 1:A:27:GLY:HA3 | 1        | 7.12          |
| (1,1664) | 1:A:6:GLN:HB3   | 1:A:27:GLY:H   | 11       | 7.12          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD1 | 20       | 7.12          |
| (1,1527) | 1:A:6:GLN:H     | 1:A:23:TYR:HD2 | 20       | 7.12          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 12       | 7.12          |
| (1,1226) | 1:A:4:ASN:HB3   | 1:A:27:GLY:HA2 | 17       | 7.12          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 19       | 7.11          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 19       | 7.11          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2 | 5        | 7.11          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3 | 5        | 7.11          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 7        | 7.11          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 7        | 7.11          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 7        | 7.11          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 7        | 7.11          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 9        | 7.11          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 12       | 7.11          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 17       | 7.11          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 13       | 7.11          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 13       | 7.11          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 13       | 7.11          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 13       | 7.11          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 15       | 7.11          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 5        | 7.11          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 9        | 7.11          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 6        | 7.11          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 6        | 7.11          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 12       | 7.11          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 13       | 7.11          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 2        | 7.11          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 18       | 7.11          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 18       | 7.11          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 20       | 7.11          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB2  | 1        | 7.11          |
| (1,4253) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HB3  | 1        | 7.11          |
| (1,4225) | 1:A:22:GLN:HB3 | 1:A:26:CYS:H    | 7        | 7.11          |
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA   | 20       | 7.11          |
| (1,4096) | 1:A:21:SER:HG  | 1:A:34:ALA:H    | 11       | 7.11          |
| (1,4042) | 1:A:21:SER:H   | 1:A:34:ALA:HA   | 9        | 7.11          |
| (1,4034) | 1:A:21:SER:H   | 1:A:31:LYS:HB2  | 13       | 7.11          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 20       | 7.11          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 20       | 7.11          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2  | 8        | 7.11          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3  | 8        | 7.11          |
| (1,3932) | 1:A:20:CYS:H   | 1:A:29:GLY:HA3  | 4        | 7.11          |
| (1,3892) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HD1  | 20       | 7.11          |
| (1,3892) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HD2  | 20       | 7.11          |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD1  | 12       | 7.11          |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD2  | 12       | 7.11          |
| (1,3662) | 1:A:18:LEU:H   | 1:A:34:ALA:H    | 15       | 7.11          |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H    | 10       | 7.11          |
| (1,3511) | 1:A:16:GLY:HA2 | 1:A:28:SER:H    | 7        | 7.11          |
| (1,3511) | 1:A:16:GLY:HA2 | 1:A:28:SER:H    | 10       | 7.11          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H    | 18       | 7.11          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 3        | 7.11          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 15       | 7.11          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 3        | 7.11          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 3        | 7.11          |
| (1,3119) | 1:A:13:GLY:H   | 1:A:27:GLY:H    | 17       | 7.11          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 3        | 7.11          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 2        | 7.11          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 15       | 7.11          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 15       | 7.11          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 9        | 7.11          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H    | 6        | 7.11          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H    | 11       | 7.11          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 20       | 7.11          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3  | 12       | 7.11          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 19       | 7.11          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 20       | 7.11          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 8        | 7.11          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 8        | 7.11          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 4        | 7.11          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 10       | 7.11          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 10       | 7.11          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H    | 11       | 7.11          |
| (1,1421) | 1:A:5:GLY:H     | 1:A:19:CYS:H    | 15       | 7.11          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD11 | 2        | 7.11          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD12 | 2        | 7.11          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD13 | 2        | 7.11          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1  | 17       | 7.11          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2  | 17       | 7.11          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1  | 5        | 7.1           |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2  | 5        | 7.1           |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2  | 9        | 7.1           |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3  | 9        | 7.1           |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2  | 20       | 7.1           |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3  | 20       | 7.1           |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2  | 17       | 7.1           |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3  | 17       | 7.1           |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H    | 10       | 7.1           |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H    | 10       | 7.1           |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE   | 8        | 7.1           |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1  | 19       | 7.1           |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3  | 11       | 7.1           |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1  | 8        | 7.1           |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 17       | 7.1           |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H    | 4        | 7.1           |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2  | 4        | 7.1           |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3  | 4        | 7.1           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3  | 4        | 7.1           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3  | 5        | 7.1           |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 12       | 7.1           |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H    | 1        | 7.1           |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H    | 10       | 7.1           |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2  | 5        | 7.1           |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3  | 5        | 7.1           |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H    | 7        | 7.1           |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H    | 7        | 7.1           |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 1        | 7.1           |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 1        | 7.1           |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 11       | 7.1           |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 11       | 7.1           |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 11       | 7.1           |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 4        | 7.1           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 10       | 7.1           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 10       | 7.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 13       | 7.1           |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 3        | 7.1           |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 4        | 7.1           |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 7        | 7.1           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 3        | 7.1           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 3        | 7.1           |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 1        | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 18       | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 18       | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 19       | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 19       | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 20       | 7.1           |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 20       | 7.1           |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 18       | 7.1           |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 10       | 7.1           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 3        | 7.1           |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 3        | 7.1           |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 5        | 7.1           |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 16       | 7.1           |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 18       | 7.1           |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 19       | 7.1           |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 20       | 7.1           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 2        | 7.1           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 3        | 7.1           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 6        | 7.1           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 8        | 7.1           |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 8        | 7.1           |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 11       | 7.1           |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 9        | 7.1           |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 9        | 7.1           |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 3        | 7.1           |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 3        | 7.1           |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 3        | 7.1           |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 4        | 7.1           |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 4        | 7.1           |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 4        | 7.1           |
| (1,3792) | 1:A:18:LEU:HD11 | 1:A:34:ALA:H   | 14       | 7.1           |
| (1,3792) | 1:A:18:LEU:HD12 | 1:A:34:ALA:H   | 14       | 7.1           |
| (1,3792) | 1:A:18:LEU:HD13 | 1:A:34:ALA:H   | 14       | 7.1           |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 1        | 7.1           |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 1        | 7.1           |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 1        | 7.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB2  | 19       | 7.1           |
| (1,3725) | 1:A:18:LEU:HB3 | 1:A:35:HIS:HB3  | 19       | 7.1           |
| (1,3616) | 1:A:17:GLY:HA2 | 1:A:35:HIS:H    | 15       | 7.1           |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1  | 2        | 7.1           |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2  | 2        | 7.1           |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD1  | 10       | 7.1           |
| (1,3518) | 1:A:16:GLY:HA2 | 1:A:32:TYR:HD2  | 10       | 7.1           |
| (1,3511) | 1:A:16:GLY:HA2 | 1:A:28:SER:H    | 2        | 7.1           |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2  | 8        | 7.1           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 10       | 7.1           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 10       | 7.1           |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 4        | 7.1           |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 5        | 7.1           |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 6        | 7.1           |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 11       | 7.1           |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 11       | 7.1           |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 4        | 7.1           |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 4        | 7.1           |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H    | 4        | 7.1           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2  | 2        | 7.1           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3  | 2        | 7.1           |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 7        | 7.1           |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 7        | 7.1           |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 12       | 7.1           |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 12       | 7.1           |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 18       | 7.1           |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 19       | 7.1           |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 19       | 7.1           |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 19       | 7.1           |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 19       | 7.1           |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 19       | 7.1           |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 1        | 7.1           |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 14       | 7.1           |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 7        | 7.1           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 14       | 7.1           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 14       | 7.1           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 14       | 7.1           |
| (1,1664) | 1:A:6:GLN:HB3  | 1:A:27:GLY:H    | 17       | 7.1           |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3  | 6        | 7.1           |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA2  | 3        | 7.1           |
| (1,1362) | 1:A:4:ASN:HD22 | 1:A:24:GLY:HA3  | 3        | 7.1           |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 8        | 7.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 6        | 7.1           |
| (1,1005) | 1:A:3:PRO:HD3   | 1:A:12:GLY:H   | 4        | 7.1           |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 2        | 7.09          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 7        | 7.09          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 7        | 7.09          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB2 | 8        | 7.09          |
| (1,725)  | 1:A:2:GLY:HA3   | 1:A:18:LEU:HB3 | 8        | 7.09          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 12       | 7.09          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 12       | 7.09          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 12       | 7.09          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB2 | 8        | 7.09          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB3 | 8        | 7.09          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 1        | 7.09          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 1        | 7.09          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 1        | 7.09          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 1        | 7.09          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 1        | 7.09          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 11       | 7.09          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 10       | 7.09          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 11       | 7.09          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 15       | 7.09          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 18       | 7.09          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 18       | 7.09          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 12       | 7.09          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 12       | 7.09          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 3        | 7.09          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 4        | 7.09          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 10       | 7.09          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 7        | 7.09          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 8        | 7.09          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H   | 4        | 7.09          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 3        | 7.09          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 1        | 7.09          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 1        | 7.09          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 16       | 7.09          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 16       | 7.09          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 11       | 7.09          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 19       | 7.09          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 20       | 7.09          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 9        | 7.09          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 9        | 7.09          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 17       | 7.09          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3  | 17       | 7.09          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 8        | 7.09          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 12       | 7.09          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 14       | 7.09          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 7        | 7.09          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 5        | 7.09          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1  | 19       | 7.09          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2  | 19       | 7.09          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 19       | 7.09          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 19       | 7.09          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 1        | 7.09          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 1        | 7.09          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 9        | 7.09          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 9        | 7.09          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 17       | 7.09          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 17       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 13       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 13       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 13       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 19       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 19       | 7.09          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 19       | 7.09          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2  | 20       | 7.09          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3  | 20       | 7.09          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H    | 9        | 7.09          |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H    | 9        | 7.09          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 7        | 7.09          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 7        | 7.09          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 3        | 7.09          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 20       | 7.09          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1  | 1        | 7.09          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2  | 1        | 7.09          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H    | 5        | 7.09          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H    | 13       | 7.09          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1  | 4        | 7.09          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2  | 4        | 7.09          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD1  | 17       | 7.09          |
| (1,3160) | 1:A:13:GLY:HA3  | 1:A:25:TYR:HD2  | 17       | 7.09          |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3  | 20       | 7.09          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 7        | 7.09          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3  | 7        | 7.09          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2  | 11       | 7.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB3 | 11       | 7.09          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2 | 6        | 7.09          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2 | 1        | 7.09          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3 | 1        | 7.09          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H   | 8        | 7.09          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2 | 5        | 7.09          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3 | 5        | 7.09          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 11       | 7.09          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 11       | 7.09          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 15       | 7.09          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 15       | 7.09          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 1        | 7.09          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 3        | 7.09          |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 15       | 7.09          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 10       | 7.09          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 10       | 7.09          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 7        | 7.09          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 16       | 7.09          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 16       | 7.09          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 16       | 7.09          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 16       | 7.09          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 16       | 7.09          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 9        | 7.09          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 20       | 7.09          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 13       | 7.09          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 13       | 7.09          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 8        | 7.09          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 12       | 7.09          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 2        | 7.09          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 2        | 7.09          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 4        | 7.09          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 4        | 7.09          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 10       | 7.09          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 10       | 7.09          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 16       | 7.09          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 16       | 7.09          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 2        | 7.09          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 2        | 7.09          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2 | 11       | 7.09          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3 | 11       | 7.09          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 13       | 7.09          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 2        | 7.09          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2  | 5        | 7.08          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2  | 6        | 7.08          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 5        | 7.08          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3  | 1        | 7.08          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H    | 3        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 1        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 1        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 1        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 1        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 1        | 7.08          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 1        | 7.08          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2  | 20       | 7.08          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2  | 20       | 7.08          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3  | 20       | 7.08          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3  | 20       | 7.08          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H    | 8        | 7.08          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H    | 8        | 7.08          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H    | 19       | 7.08          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H    | 19       | 7.08          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 6        | 7.08          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2  | 1        | 7.08          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3  | 1        | 7.08          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 6        | 7.08          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 2        | 7.08          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 5        | 7.08          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 11       | 7.08          |
| (1,4204) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HB3  | 17       | 7.08          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 3        | 7.08          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA   | 1        | 7.08          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 2        | 7.08          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 4        | 7.08          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H    | 15       | 7.08          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 13       | 7.08          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 15       | 7.08          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1  | 15       | 7.08          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2  | 15       | 7.08          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 16       | 7.08          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 16       | 7.08          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 19       | 7.08          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 17       | 7.08          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 17       | 7.08          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 20       | 7.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 20       | 7.08          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 13       | 7.08          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 13       | 7.08          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 18       | 7.08          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 18       | 7.08          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 9        | 7.08          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 9        | 7.08          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 9        | 7.08          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 5        | 7.08          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 5        | 7.08          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 5        | 7.08          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 16       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 16       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 16       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 19       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 19       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 19       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 20       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 20       | 7.08          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 20       | 7.08          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 4        | 7.08          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 4        | 7.08          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 4        | 7.08          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 17       | 7.08          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 17       | 7.08          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 17       | 7.08          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 1        | 7.08          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1 | 16       | 7.08          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2 | 16       | 7.08          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3 | 16       | 7.08          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H   | 4        | 7.08          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1 | 5        | 7.08          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2 | 5        | 7.08          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 18       | 7.08          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 19       | 7.08          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 8        | 7.08          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 8        | 7.08          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 9        | 7.08          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 9        | 7.08          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 18       | 7.08          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 19       | 7.08          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 17       | 7.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3 | 17       | 7.08          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H   | 14       | 7.08          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H   | 6        | 7.08          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 7        | 7.08          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3 | 8        | 7.08          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 2        | 7.08          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 4        | 7.08          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE1 | 17       | 7.08          |
| (1,3013) | 1:A:12:GLY:H   | 1:A:25:TYR:HE2 | 17       | 7.08          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H   | 12       | 7.08          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2 | 6        | 7.08          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3 | 6        | 7.08          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2 | 10       | 7.08          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3 | 10       | 7.08          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2 | 15       | 7.08          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3 | 15       | 7.08          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 8        | 7.08          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG2 | 9        | 7.08          |
| (1,2582) | 1:A:11:TRP:H   | 1:A:15:ARG:HG3 | 9        | 7.08          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 8        | 7.08          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 8        | 7.08          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 8        | 7.08          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 8        | 7.08          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 17       | 7.08          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 2        | 7.08          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 5        | 7.08          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 9        | 7.08          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 2        | 7.08          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 2        | 7.08          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 4        | 7.08          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 4        | 7.08          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 3        | 7.08          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 3        | 7.08          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 3        | 7.08          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 3        | 7.08          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 6        | 7.08          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 6        | 7.08          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 3        | 7.08          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 3        | 7.08          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 2        | 7.08          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 5        | 7.08          |
| (1,1411) | 1:A:5:GLY:H    | 1:A:13:GLY:HA3 | 10       | 7.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2 | 17       | 7.08          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3 | 17       | 7.08          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA2 | 4        | 7.08          |
| (1,1362) | 1:A:4:ASN:HD22  | 1:A:24:GLY:HA3 | 4        | 7.08          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD1 | 4        | 7.08          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD2 | 4        | 7.08          |
| (1,1220) | 1:A:4:ASN:HB3   | 1:A:24:GLY:H   | 9        | 7.08          |
| (1,1190) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HD1 | 15       | 7.08          |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 10       | 7.07          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1 | 9        | 7.07          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2 | 9        | 7.07          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 4        | 7.07          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 4        | 7.07          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 4        | 7.07          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 4        | 7.07          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 3        | 7.07          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 6        | 7.07          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA  | 16       | 7.07          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 3        | 7.07          |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 6        | 7.07          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 8        | 7.07          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 8        | 7.07          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 8        | 7.07          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 8        | 7.07          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 14       | 7.07          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 14       | 7.07          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 14       | 7.07          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 14       | 7.07          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 6        | 7.07          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 6        | 7.07          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 7        | 7.07          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 7        | 7.07          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 11       | 7.07          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 11       | 7.07          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 11       | 7.07          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 2        | 7.07          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 3        | 7.07          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 3        | 7.07          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 6        | 7.07          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 6        | 7.07          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 14       | 7.07          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 6        | 7.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 6        | 7.07          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 18       | 7.07          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 19       | 7.07          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 20       | 7.07          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 1        | 7.07          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 1        | 7.07          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 11       | 7.07          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 11       | 7.07          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 8        | 7.07          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 10       | 7.07          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 17       | 7.07          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3 | 16       | 7.07          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 11       | 7.07          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 11       | 7.07          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 8        | 7.07          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 8        | 7.07          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 8        | 7.07          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3 | 18       | 7.07          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3 | 18       | 7.07          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3 | 18       | 7.07          |
| (1,3731) | 1:A:18:LEU:HG   | 1:A:21:SER:HG  | 14       | 7.07          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 13       | 7.07          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 9        | 7.07          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE1 | 11       | 7.07          |
| (1,3278) | 1:A:15:ARG:H    | 1:A:32:TYR:HE2 | 11       | 7.07          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H   | 5        | 7.07          |
| (1,3159) | 1:A:13:GLY:HA3  | 1:A:25:TYR:H   | 6        | 7.07          |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3 | 18       | 7.07          |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3 | 19       | 7.07          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H   | 10       | 7.07          |
| (1,3011) | 1:A:12:GLY:H    | 1:A:25:TYR:H   | 17       | 7.07          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2 | 1        | 7.07          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3 | 1        | 7.07          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB2 | 13       | 7.07          |
| (1,2992) | 1:A:12:GLY:H    | 1:A:18:LEU:HB3 | 13       | 7.07          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2 | 11       | 7.07          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3 | 11       | 7.07          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2 | 1        | 7.07          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3 | 1        | 7.07          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2 | 14       | 7.07          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3 | 14       | 7.07          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 5        | 7.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 5        | 7.07          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2 | 15       | 7.07          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3 | 15       | 7.07          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 8        | 7.07          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 14       | 7.07          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 19       | 7.07          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 4        | 7.07          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 4        | 7.07          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 6        | 7.07          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 10       | 7.07          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2 | 14       | 7.07          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3 | 14       | 7.07          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 15       | 7.07          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 15       | 7.07          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 15       | 7.07          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 15       | 7.07          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 3        | 7.07          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 3        | 7.07          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 15       | 7.07          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 15       | 7.07          |
| (1,722)  | 1:A:2:GLY:HA3  | 1:A:14:CYS:HB3 | 14       | 7.06          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 17       | 7.06          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 17       | 7.06          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 17       | 7.06          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 17       | 7.06          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1 | 18       | 7.06          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2 | 8        | 7.06          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3 | 8        | 7.06          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2 | 14       | 7.06          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3 | 14       | 7.06          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H   | 10       | 7.06          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H   | 13       | 7.06          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H   | 6        | 7.06          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H   | 6        | 7.06          |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3 | 5        | 7.06          |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3 | 5        | 7.06          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG2 | 8        | 7.06          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG3 | 8        | 7.06          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1 | 12       | 7.06          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2 | 12       | 7.06          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB3 | 12       | 7.06          |
| (1,4362) | 1:A:23:TYR:HA  | 1:A:27:GLY:HA3 | 1        | 7.06          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 17       | 7.06          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H    | 4        | 7.06          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 20       | 7.06          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 19       | 7.06          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 19       | 7.06          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 5        | 7.06          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 18       | 7.06          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 20       | 7.06          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2  | 10       | 7.06          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3  | 10       | 7.06          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 14       | 7.06          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 14       | 7.06          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 8        | 7.06          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 10       | 7.06          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 10       | 7.06          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 6        | 7.06          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3  | 19       | 7.06          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3  | 20       | 7.06          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 9        | 7.06          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 9        | 7.06          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 7        | 7.06          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 9        | 7.06          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 7        | 7.06          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 10       | 7.06          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 10       | 7.06          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 10       | 7.06          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 6        | 7.06          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 9        | 7.06          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 9        | 7.06          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 2        | 7.06          |
| (1,3863) | 1:A:19:CYS:HA   | 1:A:31:LYS:HB3  | 18       | 7.06          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 10       | 7.06          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 10       | 7.06          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2  | 20       | 7.06          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2  | 20       | 7.06          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2  | 20       | 7.06          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 3        | 7.06          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 3        | 7.06          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 3        | 7.06          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 2        | 7.06          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 16       | 7.06          |
| (1,3490) | 1:A:16:GLY:H    | 1:A:35:HIS:HB2  | 2        | 7.06          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3490) | 1:A:16:GLY:H   | 1:A:35:HIS:HB3  | 2        | 7.06          |
| (1,3346) | 1:A:15:ARG:HB3 | 1:A:29:GLY:H    | 1        | 7.06          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2  | 20       | 7.06          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 10       | 7.06          |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 12       | 7.06          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 1        | 7.06          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 6        | 7.06          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 6        | 7.06          |
| (1,3096) | 1:A:13:GLY:H   | 1:A:19:CYS:HB3  | 16       | 7.06          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 4        | 7.06          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB2  | 17       | 7.06          |
| (1,2870) | 1:A:11:TRP:HE1 | 1:A:26:CYS:HB3  | 17       | 7.06          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 5        | 7.06          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 5        | 7.06          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 2        | 7.06          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 2        | 7.06          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 3        | 7.06          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 3        | 7.06          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 1        | 7.06          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 1        | 7.06          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 1        | 7.06          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 18       | 7.06          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 18       | 7.06          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 19       | 7.06          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 19       | 7.06          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 13       | 7.06          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 13       | 7.06          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 13       | 7.06          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 13       | 7.06          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 7        | 7.06          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 12       | 7.06          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 16       | 7.06          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 18       | 7.06          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 3        | 7.06          |
| (1,2125) | 1:A:8:GLY:HA3  | 1:A:26:CYS:HB3  | 17       | 7.06          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 1        | 7.06          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 1        | 7.06          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 7        | 7.06          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 7        | 7.06          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 9        | 7.06          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 9        | 7.06          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 6        | 7.06          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 6        | 7.06          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 16       | 7.06          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 16       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 1        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 1        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 7        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 7        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 8        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 8        | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 16       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 16       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 18       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 18       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 19       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 19       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 20       | 7.06          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 20       | 7.06          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H    | 14       | 7.06          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 4        | 7.06          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 4        | 7.06          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 1        | 7.06          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 1        | 7.06          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 20       | 7.06          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 14       | 7.06          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 14       | 7.06          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2 | 13       | 7.05          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2 | 16       | 7.05          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3 | 16       | 7.05          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 14       | 7.05          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2 | 5        | 7.05          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3 | 5        | 7.05          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3 | 3        | 7.05          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 2        | 7.05          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 2        | 7.05          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 2        | 7.05          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2 | 1        | 7.05          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3 | 1        | 7.05          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2 | 11       | 7.05          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3 | 11       | 7.05          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 19       | 7.05          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 19       | 7.05          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 10       | 7.05          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2  | 10       | 7.05          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3  | 10       | 7.05          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 2        | 7.05          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 11       | 7.05          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2  | 16       | 7.05          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3  | 16       | 7.05          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 6        | 7.05          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 2        | 7.05          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3  | 18       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 12       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 12       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 14       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 14       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 17       | 7.05          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 17       | 7.05          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 6        | 7.05          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 6        | 7.05          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 14       | 7.05          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 20       | 7.05          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 18       | 7.05          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 18       | 7.05          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 3        | 7.05          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 3        | 7.05          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 14       | 7.05          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 14       | 7.05          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 12       | 7.05          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 12       | 7.05          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 12       | 7.05          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 6        | 7.05          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 6        | 7.05          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 6        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 3        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 3        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 3        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 9        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 9        | 7.05          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 9        | 7.05          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 10       | 7.05          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 11       | 7.05          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H    | 10       | 7.05          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 12       | 7.05          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2  | 12       | 7.05          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3 | 17       | 7.05          |
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H   | 9        | 7.05          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H   | 9        | 7.05          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 7        | 7.05          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 18       | 7.05          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 19       | 7.05          |
| (1,3307) | 1:A:15:ARG:HB2 | 1:A:27:GLY:HA2 | 4        | 7.05          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H   | 4        | 7.05          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H   | 12       | 7.05          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA  | 8        | 7.05          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2 | 4        | 7.05          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3 | 4        | 7.05          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2 | 10       | 7.05          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3 | 10       | 7.05          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 7        | 7.05          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 7        | 7.05          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 16       | 7.05          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 16       | 7.05          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 20       | 7.05          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 20       | 7.05          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 20       | 7.05          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 20       | 7.05          |
| (1,2598) | 1:A:11:TRP:H   | 1:A:26:CYS:HB2 | 17       | 7.05          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 15       | 7.05          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 15       | 7.05          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 15       | 7.05          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 15       | 7.05          |
| (1,2388) | 1:A:9:PRO:HG3  | 1:A:22:GLN:HA  | 17       | 7.05          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 11       | 7.05          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 11       | 7.05          |
| (1,2041) | 1:A:8:GLY:H    | 1:A:19:CYS:HB3 | 17       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 2        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 2        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 3        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 3        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 4        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 4        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 5        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 5        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 6        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 6        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 9        | 7.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2  | 9        | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2  | 10       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2  | 10       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2  | 11       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2  | 11       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2  | 12       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2  | 12       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2  | 14       | 7.05          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2  | 14       | 7.05          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 13       | 7.05          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 13       | 7.05          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 13       | 7.05          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 4        | 7.05          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 4        | 7.05          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 17       | 7.05          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 12       | 7.05          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 12       | 7.05          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 4        | 7.05          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 1        | 7.05          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 10       | 7.04          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 10       | 7.04          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 10       | 7.04          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 10       | 7.04          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE   | 3        | 7.04          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE   | 3        | 7.04          |
| (1,4747) | 1:A:28:SER:HB2 | 1:A:35:HIS:HD2  | 13       | 7.04          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1  | 10       | 7.04          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2  | 10       | 7.04          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3  | 10       | 7.04          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 13       | 7.04          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 13       | 7.04          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2  | 6        | 7.04          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA   | 20       | 7.04          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA   | 20       | 7.04          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2  | 7        | 7.04          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3  | 7        | 7.04          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2  | 7        | 7.04          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3  | 7        | 7.04          |
| (1,4517) | 1:A:25:TYR:H   | 1:A:31:LYS:HB3  | 11       | 7.04          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H    | 12       | 7.04          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H    | 12       | 7.04          |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3  | 17       | 7.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 17       | 7.04          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3  | 13       | 7.04          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 1        | 7.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 3        | 7.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 3        | 7.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 15       | 7.04          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 15       | 7.04          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 14       | 7.04          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 14       | 7.04          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 1        | 7.04          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 5        | 7.04          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 18       | 7.04          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 8        | 7.04          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 9        | 7.04          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 18       | 7.04          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA   | 17       | 7.04          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 12       | 7.04          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 12       | 7.04          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 16       | 7.04          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 18       | 7.04          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 19       | 7.04          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3  | 9        | 7.04          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 5        | 7.04          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 16       | 7.04          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 16       | 7.04          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 16       | 7.04          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 18       | 7.04          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 18       | 7.04          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 18       | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2  | 1        | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3  | 1        | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2  | 2        | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3  | 2        | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2  | 4        | 7.04          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3  | 4        | 7.04          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB1  | 7        | 7.04          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB2  | 7        | 7.04          |
| (1,3641) | 1:A:17:GLY:HA3  | 1:A:34:ALA:HB3  | 7        | 7.04          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1  | 9        | 7.04          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2  | 9        | 7.04          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2  | 9        | 7.04          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3  | 9        | 7.04          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3316) | 1:A:15:ARG:HB2 | 1:A:33:CYS:HA   | 11       | 7.04          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H    | 2        | 7.04          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 17       | 7.04          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 11       | 7.04          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 8        | 7.04          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 9        | 7.04          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 12       | 7.04          |
| (1,2999) | 1:A:12:GLY:H   | 1:A:21:SER:H    | 17       | 7.04          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 1        | 7.04          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB2  | 17       | 7.04          |
| (1,2992) | 1:A:12:GLY:H   | 1:A:18:LEU:HB3  | 17       | 7.04          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 12       | 7.04          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 12       | 7.04          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 20       | 7.04          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 20       | 7.04          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 2        | 7.04          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 2        | 7.04          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 3        | 7.04          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 3        | 7.04          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 11       | 7.04          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 11       | 7.04          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 11       | 7.04          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3  | 13       | 7.04          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 12       | 7.04          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 12       | 7.04          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 9        | 7.04          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 2        | 7.04          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 2        | 7.04          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 2        | 7.04          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 2        | 7.04          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 11       | 7.04          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 11       | 7.04          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA2  | 17       | 7.04          |
| (1,1804) | 1:A:6:GLN:HE21 | 1:A:13:GLY:HA3  | 17       | 7.04          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 3        | 7.04          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 3        | 7.04          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 14       | 7.04          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 14       | 7.04          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 6        | 7.04          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 10       | 7.04          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 10       | 7.04          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 12       | 7.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3  | 16       | 7.04          |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3  | 18       | 7.04          |
| (1,1483) | 1:A:5:GLY:HA3   | 1:A:19:CYS:HB3  | 20       | 7.04          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD2  | 16       | 7.04          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD3  | 16       | 7.04          |
| (1,1216) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HA   | 18       | 7.04          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE1  | 3        | 7.04          |
| (1,1170) | 1:A:4:ASN:HB2   | 1:A:32:TYR:HE2  | 3        | 7.04          |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H    | 1        | 7.04          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 5        | 7.04          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 5        | 7.04          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 5        | 7.04          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1  | 1        | 7.03          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2  | 1        | 7.03          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H    | 4        | 7.03          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA   | 5        | 7.03          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA   | 5        | 7.03          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA   | 5        | 7.03          |
| (1,4719) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HA   | 9        | 7.03          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2  | 3        | 7.03          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3  | 3        | 7.03          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2  | 15       | 7.03          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3  | 15       | 7.03          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA   | 10       | 7.03          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA   | 18       | 7.03          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA   | 18       | 7.03          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2  | 10       | 7.03          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3  | 10       | 7.03          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2  | 10       | 7.03          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3  | 10       | 7.03          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 1        | 7.03          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 1        | 7.03          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H    | 17       | 7.03          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H    | 17       | 7.03          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 5        | 7.03          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA   | 6        | 7.03          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 15       | 7.03          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 15       | 7.03          |
| (1,4225) | 1:A:22:GLN:HB3  | 1:A:26:CYS:H    | 12       | 7.03          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H    | 19       | 7.03          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H    | 17       | 7.03          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 7        | 7.03          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3  | 7        | 7.03          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 5        | 7.03          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 15       | 7.03          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 9        | 7.03          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 11       | 7.03          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 20       | 7.03          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 20       | 7.03          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD2  | 8        | 7.03          |
| (1,3864) | 1:A:19:CYS:HA   | 1:A:31:LYS:HD3  | 8        | 7.03          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3  | 14       | 7.03          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 3        | 7.03          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 3        | 7.03          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 3        | 7.03          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 18       | 7.03          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 19       | 7.03          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 16       | 7.03          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2  | 10       | 7.03          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3  | 10       | 7.03          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2  | 15       | 7.03          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3  | 15       | 7.03          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 10       | 7.03          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3  | 8        | 7.03          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 2        | 7.03          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 7        | 7.03          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H    | 4        | 7.03          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H    | 10       | 7.03          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H    | 5        | 7.03          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H    | 6        | 7.03          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 15       | 7.03          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 20       | 7.03          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2  | 8        | 7.03          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3  | 8        | 7.03          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2  | 17       | 7.03          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3  | 17       | 7.03          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2  | 20       | 7.03          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3  | 20       | 7.03          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 1        | 7.03          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 1        | 7.03          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2  | 18       | 7.03          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3  | 18       | 7.03          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2  | 19       | 7.03          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3  | 19       | 7.03          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2  | 9        | 7.03          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3  | 9        | 7.03          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 20       | 7.03          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 12       | 7.03          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 3        | 7.03          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 3        | 7.03          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 3        | 7.03          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 3        | 7.03          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 12       | 7.03          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 12       | 7.03          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 11       | 7.03          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 6        | 7.03          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 9        | 7.03          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 13       | 7.03          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 8        | 7.03          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 9        | 7.03          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 20       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 4        | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 4        | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 7        | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 7        | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 16       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 16       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 18       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 18       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 19       | 7.03          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 19       | 7.03          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 15       | 7.03          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 17       | 7.03          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 17       | 7.03          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 17       | 7.03          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 17       | 7.03          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 19       | 7.03          |
| (1,1697) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HA    | 17       | 7.03          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA2  | 17       | 7.03          |
| (1,1665) | 1:A:6:GLN:HB3  | 1:A:27:GLY:HA3  | 17       | 7.03          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 17       | 7.03          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 14       | 7.03          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 14       | 7.03          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 19       | 7.03          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 17       | 7.03          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 17       | 7.03          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 5        | 7.03          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 12       | 7.03          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 12       | 7.03          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 5        | 7.03          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 5        | 7.03          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 5        | 7.03          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 17       | 7.03          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 2        | 7.03          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 2        | 7.03          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 2        | 7.03          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 15       | 7.02          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 15       | 7.02          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 15       | 7.02          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3  | 12       | 7.02          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 12       | 7.02          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1  | 5        | 7.02          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2  | 5        | 7.02          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3  | 5        | 7.02          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2  | 4        | 7.02          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3  | 4        | 7.02          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 12       | 7.02          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 12       | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 6        | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 6        | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 12       | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 12       | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 17       | 7.02          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 17       | 7.02          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ1  | 18       | 7.02          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ2  | 18       | 7.02          |
| (1,4620) | 1:A:26:CYS:H   | 1:A:31:LYS:HZ3  | 18       | 7.02          |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H    | 10       | 7.02          |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H    | 10       | 7.02          |
| (1,4403) | 1:A:23:TYR:HD1 | 1:A:31:LYS:H    | 16       | 7.02          |
| (1,4403) | 1:A:23:TYR:HD2 | 1:A:31:LYS:H    | 16       | 7.02          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H    | 13       | 7.02          |
| (1,4345) | 1:A:23:TYR:H   | 1:A:28:SER:H    | 16       | 7.02          |
| (1,4239) | 1:A:22:GLN:HB3 | 1:A:33:CYS:HA   | 11       | 7.02          |
| (1,4225) | 1:A:22:GLN:HB3 | 1:A:26:CYS:H    | 13       | 7.02          |
| (1,4225) | 1:A:22:GLN:HB3 | 1:A:26:CYS:H    | 19       | 7.02          |
| (1,4171) | 1:A:22:GLN:HB2 | 1:A:26:CYS:H    | 17       | 7.02          |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE2  | 6        | 7.02          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE3  | 6        | 7.02          |
| (1,4086) | 1:A:21:SER:HG  | 1:A:31:LYS:HB2  | 5        | 7.02          |
| (1,4080) | 1:A:21:SER:HG  | 1:A:29:GLY:HA3  | 10       | 7.02          |
| (1,4080) | 1:A:21:SER:HG  | 1:A:29:GLY:HA3  | 16       | 7.02          |
| (1,3964) | 1:A:20:CYS:HB2 | 1:A:28:SER:H    | 2        | 7.02          |
| (1,3964) | 1:A:20:CYS:HB2 | 1:A:28:SER:H    | 3        | 7.02          |
| (1,3964) | 1:A:20:CYS:HB2 | 1:A:28:SER:H    | 4        | 7.02          |
| (1,3964) | 1:A:20:CYS:HB2 | 1:A:28:SER:H    | 6        | 7.02          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 17       | 7.02          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 17       | 7.02          |
| (1,3934) | 1:A:20:CYS:H   | 1:A:31:LYS:HA   | 1        | 7.02          |
| (1,3934) | 1:A:20:CYS:H   | 1:A:31:LYS:HA   | 9        | 7.02          |
| (1,3934) | 1:A:20:CYS:H   | 1:A:31:LYS:HA   | 12       | 7.02          |
| (1,3913) | 1:A:20:CYS:H   | 1:A:22:GLN:HG2  | 18       | 7.02          |
| (1,3892) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HD1  | 4        | 7.02          |
| (1,3892) | 1:A:19:CYS:HB3 | 1:A:23:TYR:HD2  | 4        | 7.02          |
| (1,3869) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HB3  | 18       | 7.02          |
| (1,3824) | 1:A:19:CYS:H   | 1:A:23:TYR:HB2  | 2        | 7.02          |
| (1,3824) | 1:A:19:CYS:H   | 1:A:23:TYR:HB2  | 10       | 7.02          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG2  | 9        | 7.02          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG3  | 9        | 7.02          |
| (1,3352) | 1:A:15:ARG:HB3 | 1:A:33:CYS:HA   | 13       | 7.02          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 12       | 7.02          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1  | 3        | 7.02          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2  | 3        | 7.02          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H    | 6        | 7.02          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H    | 14       | 7.02          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 9        | 7.02          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 1        | 7.02          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 18       | 7.02          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 18       | 7.02          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 18       | 7.02          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 19       | 7.02          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 19       | 7.02          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 5        | 7.02          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 5        | 7.02          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 10       | 7.02          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 10       | 7.02          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 7        | 7.02          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 7        | 7.02          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 14       | 7.02          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 14       | 7.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2 | 1        | 7.02          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3 | 1        | 7.02          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 8        | 7.02          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 8        | 7.02          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 9        | 7.02          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 9        | 7.02          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB2 | 8        | 7.02          |
| (1,2639) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HB3 | 8        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 1        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 1        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 1        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 1        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 4        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 4        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 4        | 7.02          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 4        | 7.02          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 1        | 7.02          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2 | 15       | 7.02          |
| (1,2327) | 1:A:9:PRO:HG2  | 1:A:23:TYR:HA  | 17       | 7.02          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 20       | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 2        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 2        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 3        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 3        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 8        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 8        | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 10       | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 10       | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 20       | 7.02          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 20       | 7.02          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 5        | 7.02          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 5        | 7.02          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 11       | 7.02          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 11       | 7.02          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H    | 18       | 7.02          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 6        | 7.02          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 6        | 7.02          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3 | 4        | 7.02          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 17       | 7.02          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 17       | 7.02          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 6        | 7.02          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 6        | 7.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB2 | 10       | 7.02          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB3 | 10       | 7.02          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2 | 8        | 7.02          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA2 | 11       | 7.02          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA3 | 11       | 7.02          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD1 | 6        | 7.02          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD2 | 6        | 7.02          |
| (1,1220) | 1:A:4:ASN:HB3   | 1:A:24:GLY:H   | 14       | 7.02          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2 | 3        | 7.02          |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB2 | 13       | 7.02          |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB3 | 13       | 7.02          |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H   | 20       | 7.02          |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 1        | 7.01          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 4        | 7.01          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 4        | 7.01          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H   | 6        | 7.01          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA  | 18       | 7.01          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA  | 18       | 7.01          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA  | 18       | 7.01          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 8        | 7.01          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 8        | 7.01          |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 10       | 7.01          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 13       | 7.01          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 13       | 7.01          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 18       | 7.01          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 19       | 7.01          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 20       | 7.01          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 5        | 7.01          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 5        | 7.01          |
| (1,4419) | 1:A:23:TYR:HE1  | 1:A:28:SER:H   | 20       | 7.01          |
| (1,4419) | 1:A:23:TYR:HE2  | 1:A:28:SER:H   | 20       | 7.01          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 13       | 7.01          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 10       | 7.01          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 10       | 7.01          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 5        | 7.01          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 10       | 7.01          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 9        | 7.01          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 6        | 7.01          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 10       | 7.01          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 11       | 7.01          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 11       | 7.01          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 9        | 7.01          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 8        | 7.01          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 8        | 7.01          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 13       | 7.01          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 13       | 7.01          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2  | 15       | 7.01          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3  | 15       | 7.01          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H    | 13       | 7.01          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 4        | 7.01          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA   | 13       | 7.01          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 20       | 7.01          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 20       | 7.01          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2  | 1        | 7.01          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2  | 3        | 7.01          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 7        | 7.01          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 7        | 7.01          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 7        | 7.01          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 3        | 7.01          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 7        | 7.01          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 8        | 7.01          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H    | 20       | 7.01          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD1  | 17       | 7.01          |
| (1,3518) | 1:A:16:GLY:HA2  | 1:A:32:TYR:HD2  | 17       | 7.01          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2  | 3        | 7.01          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3  | 3        | 7.01          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 19       | 7.01          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 17       | 7.01          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 17       | 7.01          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H    | 16       | 7.01          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H    | 16       | 7.01          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H    | 2        | 7.01          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H    | 3        | 7.01          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1  | 12       | 7.01          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2  | 12       | 7.01          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H    | 20       | 7.01          |
| (1,3096) | 1:A:13:GLY:H    | 1:A:19:CYS:HB3  | 12       | 7.01          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 16       | 7.01          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA   | 19       | 7.01          |
| (1,2997) | 1:A:12:GLY:H    | 1:A:20:CYS:H    | 11       | 7.01          |
| (1,2944) | 1:A:11:TRP:HZ2  | 1:A:24:GLY:HA2  | 3        | 7.01          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2  | 6        | 7.01          |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3  | 6        | 7.01          |
| (1,2868) | 1:A:11:TRP:HE1  | 1:A:26:CYS:H    | 15       | 7.01          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2 | 16       | 7.01          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3 | 16       | 7.01          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2 | 19       | 7.01          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3 | 19       | 7.01          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 5        | 7.01          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 5        | 7.01          |
| (1,2751) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HA  | 13       | 7.01          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 16       | 7.01          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H   | 8        | 7.01          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H   | 18       | 7.01          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H   | 19       | 7.01          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 16       | 7.01          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 16       | 7.01          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H   | 15       | 7.01          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 20       | 7.01          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 20       | 7.01          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 20       | 7.01          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 20       | 7.01          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H   | 14       | 7.01          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 8        | 7.01          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 14       | 7.01          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2 | 19       | 7.01          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 16       | 7.01          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 18       | 7.01          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 19       | 7.01          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 9        | 7.01          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 9        | 7.01          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2 | 12       | 7.01          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3 | 12       | 7.01          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 13       | 7.01          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 13       | 7.01          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 14       | 7.01          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 14       | 7.01          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 7        | 7.01          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 7        | 7.01          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 18       | 7.01          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 18       | 7.01          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 19       | 7.01          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 19       | 7.01          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H    | 7        | 7.01          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 14       | 7.01          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 14       | 7.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 6        | 7.01          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 6        | 7.01          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 15       | 7.01          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 15       | 7.01          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 10       | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 2        | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 2        | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 2        | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 2        | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 2        | 7.01          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 2        | 7.01          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 10       | 7.01          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 10       | 7.01          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 10       | 7.01          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 1        | 7.01          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 1        | 7.01          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 16       | 7.01          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 9        | 7.01          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 9        | 7.01          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 1        | 7.01          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 3        | 7.01          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 20       | 7.01          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 11       | 7.0           |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 3        | 7.0           |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 3        | 7.0           |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 3        | 7.0           |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 3        | 7.0           |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 8        | 7.0           |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 8        | 7.0           |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 8        | 7.0           |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 8        | 7.0           |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2  | 3        | 7.0           |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3  | 3        | 7.0           |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 14       | 7.0           |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2  | 13       | 7.0           |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3  | 13       | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 4        | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 4        | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 7        | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 7        | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 9        | 7.0           |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 9        | 7.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 14       | 7.0           |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 14       | 7.0           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 10       | 7.0           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 18       | 7.0           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 19       | 7.0           |
| (1,4669) | 1:A:26:CYS:HB3  | 1:A:29:GLY:HA3 | 20       | 7.0           |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 10       | 7.0           |
| (1,4637) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB2 | 1        | 7.0           |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 5        | 7.0           |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 12       | 7.0           |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 10       | 7.0           |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 10       | 7.0           |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 19       | 7.0           |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 19       | 7.0           |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 8        | 7.0           |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 8        | 7.0           |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 12       | 7.0           |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 12       | 7.0           |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 15       | 7.0           |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 19       | 7.0           |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 10       | 7.0           |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 12       | 7.0           |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 5        | 7.0           |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 9        | 7.0           |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 6        | 7.0           |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 7        | 7.0           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 5        | 7.0           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 5        | 7.0           |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 12       | 7.0           |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 6        | 7.0           |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 6        | 7.0           |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 1        | 7.0           |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 3        | 7.0           |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 6        | 7.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 3        | 7.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 3        | 7.0           |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 17       | 7.0           |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 2        | 7.0           |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 15       | 7.0           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 1        | 7.0           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 11       | 7.0           |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 20       | 7.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 1        | 7.0           |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 1        | 7.0           |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 9        | 7.0           |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 5        | 7.0           |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 6        | 7.0           |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 20       | 7.0           |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 20       | 7.0           |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 20       | 7.0           |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 11       | 7.0           |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 11       | 7.0           |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 11       | 7.0           |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 4        | 7.0           |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 5        | 7.0           |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 13       | 7.0           |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 13       | 7.0           |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 15       | 7.0           |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 15       | 7.0           |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 8        | 7.0           |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 8        | 7.0           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 13       | 7.0           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 13       | 7.0           |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 6        | 7.0           |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 6        | 7.0           |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 6        | 7.0           |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 6        | 7.0           |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 9        | 7.0           |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 11       | 7.0           |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H   | 14       | 7.0           |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 3        | 7.0           |
| (1,3140) | 1:A:13:GLY:HA2  | 1:A:27:GLY:HA3 | 17       | 7.0           |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H   | 1        | 7.0           |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA  | 7        | 7.0           |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA  | 11       | 7.0           |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2 | 14       | 7.0           |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3 | 14       | 7.0           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2 | 7        | 7.0           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3 | 7        | 7.0           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2 | 9        | 7.0           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3 | 9        | 7.0           |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA2 | 2        | 7.0           |
| (1,2916) | 1:A:11:TRP:HZ3  | 1:A:24:GLY:HA3 | 2        | 7.0           |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB2 | 18       | 7.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 18       | 7.0           |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2  | 14       | 7.0           |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3  | 14       | 7.0           |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2  | 10       | 7.0           |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3  | 10       | 7.0           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 7        | 7.0           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 7        | 7.0           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 18       | 7.0           |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 18       | 7.0           |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 12       | 7.0           |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 12       | 7.0           |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 12       | 7.0           |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 12       | 7.0           |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 2        | 7.0           |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 2        | 7.0           |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 3        | 7.0           |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 10       | 7.0           |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 17       | 7.0           |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 7        | 7.0           |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 7        | 7.0           |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 12       | 7.0           |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 16       | 7.0           |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 18       | 7.0           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 20       | 7.0           |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 20       | 7.0           |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 7        | 7.0           |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 12       | 7.0           |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 5        | 7.0           |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 5        | 7.0           |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 6        | 7.0           |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 6        | 7.0           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 7        | 7.0           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 7        | 7.0           |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 8        | 7.0           |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 16       | 7.0           |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 1        | 7.0           |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 1        | 7.0           |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 2        | 7.0           |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 5        | 7.0           |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 8        | 7.0           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 10       | 7.0           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 10       | 7.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 10       | 7.0           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 10       | 7.0           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 10       | 7.0           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 10       | 7.0           |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 2        | 7.0           |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 2        | 7.0           |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2  | 4        | 7.0           |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3  | 4        | 7.0           |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2  | 14       | 7.0           |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3  | 14       | 7.0           |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 19       | 7.0           |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2   | 2        | 6.99          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3   | 2        | 6.99          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 8        | 6.99          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 8        | 6.99          |
| (1,4693) | 1:A:27:GLY:H   | 1:A:35:HIS:HE1  | 1        | 6.99          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 10       | 6.99          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 10       | 6.99          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 2        | 6.99          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 2        | 6.99          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB2  | 5        | 6.99          |
| (1,4679) | 1:A:27:GLY:H   | 1:A:30:PRO:HB3  | 5        | 6.99          |
| (1,4669) | 1:A:26:CYS:HB3 | 1:A:29:GLY:HA3  | 16       | 6.99          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H    | 5        | 6.99          |
| (1,4540) | 1:A:25:TYR:HB2 | 1:A:33:CYS:H    | 16       | 6.99          |
| (1,4517) | 1:A:25:TYR:H   | 1:A:31:LYS:HB3  | 16       | 6.99          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1  | 1        | 6.99          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ1  | 18       | 6.99          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ2  | 18       | 6.99          |
| (1,4476) | 1:A:24:GLY:HA2 | 1:A:31:LYS:HZ3  | 18       | 6.99          |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H    | 4        | 6.99          |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H    | 4        | 6.99          |
| (1,4403) | 1:A:23:TYR:HD1 | 1:A:31:LYS:H    | 7        | 6.99          |
| (1,4403) | 1:A:23:TYR:HD2 | 1:A:31:LYS:H    | 7        | 6.99          |
| (1,4403) | 1:A:23:TYR:HD1 | 1:A:31:LYS:H    | 13       | 6.99          |
| (1,4403) | 1:A:23:TYR:HD2 | 1:A:31:LYS:H    | 13       | 6.99          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB1  | 2        | 6.99          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB2  | 2        | 6.99          |
| (1,4383) | 1:A:23:TYR:HB2 | 1:A:34:ALA:HB3  | 2        | 6.99          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2  | 15       | 6.99          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3  | 15       | 6.99          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H    | 15       | 6.99          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 18       | 6.99          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 3        | 6.99          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 9        | 6.99          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 7        | 6.99          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 7        | 6.99          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 15       | 6.99          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 15       | 6.99          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 11       | 6.99          |
| (1,3934) | 1:A:20:CYS:H    | 1:A:31:LYS:HA  | 8        | 6.99          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 17       | 6.99          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 18       | 6.99          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 9        | 6.99          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 9        | 6.99          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 16       | 6.99          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 16       | 6.99          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 5        | 6.99          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 5        | 6.99          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 4        | 6.99          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 16       | 6.99          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 16       | 6.99          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 16       | 6.99          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 16       | 6.99          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 16       | 6.99          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 16       | 6.99          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 10       | 6.99          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 10       | 6.99          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 10       | 6.99          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 8        | 6.99          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 8        | 6.99          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 3        | 6.99          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 3        | 6.99          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 3        | 6.99          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 1        | 6.99          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 4        | 6.99          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 4        | 6.99          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 12       | 6.99          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 12       | 6.99          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H   | 5        | 6.99          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H   | 17       | 6.99          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 18       | 6.99          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 19       | 6.99          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H   | 13       | 6.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 13       | 6.99          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 18       | 6.99          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 18       | 6.99          |
| (1,2944) | 1:A:11:TRP:HZ2 | 1:A:24:GLY:HA2  | 17       | 6.99          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 1        | 6.99          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 9        | 6.99          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 9        | 6.99          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2  | 2        | 6.99          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3  | 2        | 6.99          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 8        | 6.99          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 8        | 6.99          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 8        | 6.99          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 12       | 6.99          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 12       | 6.99          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 7        | 6.99          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 16       | 6.99          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 1        | 6.99          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 11       | 6.99          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 11       | 6.99          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 11       | 6.99          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 11       | 6.99          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 13       | 6.99          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 13       | 6.99          |
| (1,2367) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HZ2  | 13       | 6.99          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 10       | 6.99          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 2        | 6.99          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 5        | 6.99          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 6        | 6.99          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2  | 10       | 6.99          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3  | 10       | 6.99          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 8        | 6.99          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 8        | 6.99          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 11       | 6.99          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 11       | 6.99          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 20       | 6.99          |
| (1,1483) | 1:A:5:GLY:HA3  | 1:A:19:CYS:HB3  | 7        | 6.99          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 6        | 6.99          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 10       | 6.99          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 1        | 6.99          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 11       | 6.99          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 11       | 6.99          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 19       | 6.99          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1190) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HD1 | 5        | 6.99          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD1 | 19       | 6.99          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD2 | 19       | 6.99          |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H   | 18       | 6.99          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1 | 8        | 6.98          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2 | 8        | 6.98          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1 | 15       | 6.98          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2 | 15       | 6.98          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 17       | 6.98          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 16       | 6.98          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 16       | 6.98          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 5        | 6.98          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 5        | 6.98          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 13       | 6.98          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 13       | 6.98          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 17       | 6.98          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 4        | 6.98          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 17       | 6.98          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 7        | 6.98          |
| (1,4356) | 1:A:23:TYR:H    | 1:A:34:ALA:H   | 16       | 6.98          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 20       | 6.98          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 2        | 6.98          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 2        | 6.98          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 19       | 6.98          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 14       | 6.98          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 5        | 6.98          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 5        | 6.98          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 4        | 6.98          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 4        | 6.98          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 4        | 6.98          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 11       | 6.98          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 19       | 6.98          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 11       | 6.98          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 11       | 6.98          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 4        | 6.98          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 17       | 6.98          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 17       | 6.98          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 13       | 6.98          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 13       | 6.98          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 13       | 6.98          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 12       | 6.98          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 15       | 6.98          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG2  | 11       | 6.98          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG3  | 11       | 6.98          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD1  | 7        | 6.98          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD2  | 7        | 6.98          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2  | 11       | 6.98          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3  | 11       | 6.98          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1  | 3        | 6.98          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2  | 3        | 6.98          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3  | 3        | 6.98          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 7        | 6.98          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 16       | 6.98          |
| (1,3015) | 1:A:12:GLY:H   | 1:A:26:CYS:HA   | 13       | 6.98          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 15       | 6.98          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 16       | 6.98          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 16       | 6.98          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 4        | 6.98          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 4        | 6.98          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 11       | 6.98          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 20       | 6.98          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 20       | 6.98          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2  | 6        | 6.98          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3  | 6        | 6.98          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 1        | 6.98          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H    | 12       | 6.98          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 8        | 6.98          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 8        | 6.98          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 11       | 6.98          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 4        | 6.98          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 16       | 6.98          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 18       | 6.98          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 19       | 6.98          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 17       | 6.98          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 7        | 6.98          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 7        | 6.98          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 5        | 6.98          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 9        | 6.98          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 9        | 6.98          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 20       | 6.98          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 20       | 6.98          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 13       | 6.98          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 13       | 6.98          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 12       | 6.98          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1780) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HD1  | 5        | 6.98          |
| (1,1780) | 1:A:6:GLN:HG3   | 1:A:32:TYR:HD2  | 5        | 6.98          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2  | 2        | 6.98          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3  | 2        | 6.98          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2  | 10       | 6.98          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3  | 10       | 6.98          |
| (1,1565) | 1:A:6:GLN:HA    | 1:A:22:GLN:HB2  | 12       | 6.98          |
| (1,1565) | 1:A:6:GLN:HA    | 1:A:22:GLN:HB3  | 12       | 6.98          |
| (1,1541) | 1:A:6:GLN:H     | 1:A:32:TYR:HD1  | 3        | 6.98          |
| (1,1541) | 1:A:6:GLN:H     | 1:A:32:TYR:HD2  | 3        | 6.98          |
| (1,1517) | 1:A:6:GLN:H     | 1:A:19:CYS:H    | 1        | 6.98          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD2  | 5        | 6.98          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD3  | 5        | 6.98          |
| (1,1413) | 1:A:5:GLY:H     | 1:A:15:ARG:HB2  | 9        | 6.98          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA2  | 8        | 6.98          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA3  | 8        | 6.98          |
| (1,1225) | 1:A:4:ASN:HB3   | 1:A:27:GLY:H    | 9        | 6.98          |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H    | 16       | 6.98          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2  | 14       | 6.98          |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H    | 9        | 6.98          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2  | 3        | 6.98          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3  | 3        | 6.98          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 10       | 6.98          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 10       | 6.98          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 10       | 6.98          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1  | 4        | 6.97          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2  | 4        | 6.97          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1  | 4        | 6.97          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2  | 4        | 6.97          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3  | 13       | 6.97          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2  | 19       | 6.97          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3  | 19       | 6.97          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H    | 13       | 6.97          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 17       | 6.97          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 17       | 6.97          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2  | 17       | 6.97          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3  | 17       | 6.97          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H    | 15       | 6.97          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 16       | 6.97          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H    | 4        | 6.97          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 4        | 6.97          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 11       | 6.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 4        | 6.97          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 1        | 6.97          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 14       | 6.97          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 14       | 6.97          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 14       | 6.97          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 11       | 6.97          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 10       | 6.97          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG2 | 2        | 6.97          |
| (1,4050) | 1:A:21:SER:HB2  | 1:A:30:PRO:HG3 | 2        | 6.97          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 14       | 6.97          |
| (1,3964) | 1:A:20:CYS:HB2  | 1:A:28:SER:H   | 1        | 6.97          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 13       | 6.97          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 19       | 6.97          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 19       | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 1        | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 1        | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 7        | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 7        | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 11       | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 11       | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 15       | 6.97          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 15       | 6.97          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 11       | 6.97          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 11       | 6.97          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 11       | 6.97          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 2        | 6.97          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 9        | 6.97          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 3        | 6.97          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 3        | 6.97          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2 | 7        | 6.97          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3 | 7        | 6.97          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 1        | 6.97          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 1        | 6.97          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 5        | 6.97          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 5        | 6.97          |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 8        | 6.97          |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 9        | 6.97          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 6        | 6.97          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 6        | 6.97          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 3        | 6.97          |
| (1,3099) | 1:A:13:GLY:H    | 1:A:21:SER:H   | 16       | 6.97          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H   | 15       | 6.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 3        | 6.97          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2  | 14       | 6.97          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3  | 14       | 6.97          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 8        | 6.97          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 8        | 6.97          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 11       | 6.97          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 15       | 6.97          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2  | 12       | 6.97          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3  | 12       | 6.97          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 11       | 6.97          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 2        | 6.97          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 6        | 6.97          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 10       | 6.97          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 15       | 6.97          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 11       | 6.97          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 19       | 6.97          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 18       | 6.97          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 18       | 6.97          |
| (1,2017) | 1:A:7:CYS:HB2  | 1:A:33:CYS:H    | 19       | 6.97          |
| (1,2017) | 1:A:7:CYS:HB3  | 1:A:33:CYS:H    | 19       | 6.97          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 6        | 6.97          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 6        | 6.97          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 20       | 6.97          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 20       | 6.97          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 3        | 6.97          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 3        | 6.97          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 4        | 6.97          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 4        | 6.97          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 3        | 6.97          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 3        | 6.97          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 14       | 6.97          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 14       | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 6        | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 6        | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 6        | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 6        | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 6        | 6.97          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 6        | 6.97          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 4        | 6.97          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 4        | 6.97          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 4        | 6.97          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 20       | 6.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1238) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HE2 | 20       | 6.97          |
| (1,1216) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HA  | 7        | 6.97          |
| (1,1215) | 1:A:4:ASN:HB3   | 1:A:23:TYR:H   | 18       | 6.97          |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA  | 17       | 6.97          |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H   | 7        | 6.97          |
| (1,1031) | 1:A:3:PRO:HD3   | 1:A:26:CYS:H   | 4        | 6.97          |
| (1,1005) | 1:A:3:PRO:HD3   | 1:A:12:GLY:H   | 19       | 6.97          |
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H   | 3        | 6.96          |
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H   | 4        | 6.96          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 2        | 6.96          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ1 | 8        | 6.96          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ2 | 8        | 6.96          |
| (1,4620) | 1:A:26:CYS:H    | 1:A:31:LYS:HZ3 | 8        | 6.96          |
| (1,4596) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HA  | 16       | 6.96          |
| (1,4596) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HA  | 16       | 6.96          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 7        | 6.96          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 8        | 6.96          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 11       | 6.96          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 14       | 6.96          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 15       | 6.96          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 10       | 6.96          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 18       | 6.96          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 4        | 6.96          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 4        | 6.96          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 10       | 6.96          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 9        | 6.96          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 3        | 6.96          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 3        | 6.96          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 14       | 6.96          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 14       | 6.96          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 12       | 6.96          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 17       | 6.96          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 17       | 6.96          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 20       | 6.96          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1 | 5        | 6.96          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 2        | 6.96          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 2        | 6.96          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 16       | 6.96          |
| (1,3932) | 1:A:20:CYS:H    | 1:A:29:GLY:HA3 | 16       | 6.96          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 18       | 6.96          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 18       | 6.96          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 9        | 6.96          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 10       | 6.96          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 10       | 6.96          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 19       | 6.96          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 20       | 6.96          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 20       | 6.96          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 20       | 6.96          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 17       | 6.96          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 7        | 6.96          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 7        | 6.96          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 11       | 6.96          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 15       | 6.96          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 15       | 6.96          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 2        | 6.96          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 2        | 6.96          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 12       | 6.96          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 12       | 6.96          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB2 | 13       | 6.96          |
| (1,2853) | 1:A:11:TRP:HE1  | 1:A:20:CYS:HB3 | 13       | 6.96          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2 | 6        | 6.96          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3 | 6        | 6.96          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H   | 11       | 6.96          |
| (1,2624) | 1:A:11:TRP:HA   | 1:A:26:CYS:H   | 15       | 6.96          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 15       | 6.96          |
| (1,2440) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HD1 | 18       | 6.96          |
| (1,2440) | 1:A:9:PRO:HD2   | 1:A:23:TYR:HD2 | 18       | 6.96          |
| (1,2440) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HD1 | 18       | 6.96          |
| (1,2440) | 1:A:9:PRO:HD3   | 1:A:23:TYR:HD2 | 18       | 6.96          |
| (1,2330) | 1:A:9:PRO:HG2   | 1:A:24:GLY:H   | 2        | 6.96          |
| (1,2304) | 1:A:9:PRO:HG2   | 1:A:13:GLY:HA2 | 3        | 6.96          |
| (1,2199) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HH2 | 1        | 6.96          |
| (1,2105) | 1:A:8:GLY:HA3   | 1:A:11:TRP:HH2 | 3        | 6.96          |
| (1,2105) | 1:A:8:GLY:HA3   | 1:A:11:TRP:HH2 | 4        | 6.96          |
| (1,2019) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HD2 | 6        | 6.96          |
| (1,2019) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HD2 | 6        | 6.96          |
| (1,2017) | 1:A:7:CYS:HB2   | 1:A:33:CYS:H   | 16       | 6.96          |
| (1,2017) | 1:A:7:CYS:HB3   | 1:A:33:CYS:H   | 16       | 6.96          |
| (1,1988) | 1:A:7:CYS:HB2   | 1:A:17:GLY:H   | 1        | 6.96          |
| (1,1988) | 1:A:7:CYS:HB3   | 1:A:17:GLY:H   | 1        | 6.96          |
| (1,1988) | 1:A:7:CYS:HB2   | 1:A:17:GLY:H   | 5        | 6.96          |
| (1,1988) | 1:A:7:CYS:HB3   | 1:A:17:GLY:H   | 5        | 6.96          |
| (1,1988) | 1:A:7:CYS:HB2   | 1:A:17:GLY:H   | 8        | 6.96          |
| (1,1988) | 1:A:7:CYS:HB3   | 1:A:17:GLY:H   | 8        | 6.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 15       | 6.96          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 15       | 6.96          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 15       | 6.96          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 12       | 6.96          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 12       | 6.96          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1  | 2        | 6.96          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2  | 2        | 6.96          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 15       | 6.96          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 9        | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 14       | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 14       | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 14       | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 14       | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 14       | 6.96          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 14       | 6.96          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 13       | 6.96          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 6        | 6.96          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 10       | 6.96          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 15       | 6.96          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 15       | 6.96          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 11       | 6.96          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 12       | 6.96          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 1        | 6.96          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 1        | 6.96          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 8        | 6.96          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 12       | 6.95          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 15       | 6.95          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 1        | 6.95          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 1        | 6.95          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 11       | 6.95          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 11       | 6.95          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2   | 1        | 6.95          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3   | 1        | 6.95          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1  | 2        | 6.95          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2  | 2        | 6.95          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1  | 2        | 6.95          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2  | 2        | 6.95          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 2        | 6.95          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 2        | 6.95          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 6        | 6.95          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2  | 2        | 6.95          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3  | 2        | 6.95          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 9        | 6.95          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 9        | 6.95          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 9        | 6.95          |
| (1,4690) | 1:A:27:GLY:H    | 1:A:34:ALA:HA  | 7        | 6.95          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 14       | 6.95          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 14       | 6.95          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 10       | 6.95          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 10       | 6.95          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 11       | 6.95          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 11       | 6.95          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 1        | 6.95          |
| (1,4522) | 1:A:25:TYR:H    | 1:A:33:CYS:H   | 2        | 6.95          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 8        | 6.95          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 11       | 6.95          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 11       | 6.95          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 11       | 6.95          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 11       | 6.95          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 8        | 6.95          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 9        | 6.95          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 14       | 6.95          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 16       | 6.95          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 7        | 6.95          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 11       | 6.95          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 7        | 6.95          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 15       | 6.95          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 18       | 6.95          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 11       | 6.95          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 2        | 6.95          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 12       | 6.95          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 12       | 6.95          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 1        | 6.95          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 9        | 6.95          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 11       | 6.95          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 9        | 6.95          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 13       | 6.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 16       | 6.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 16       | 6.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 16       | 6.95          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 9        | 6.95          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 9        | 6.95          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 13       | 6.95          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 13       | 6.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3824) | 1:A:19:CYS:H   | 1:A:23:TYR:HB2 | 11       | 6.95          |
| (1,3747) | 1:A:18:LEU:HG  | 1:A:29:GLY:HA3 | 1        | 6.95          |
| (1,3740) | 1:A:18:LEU:HG  | 1:A:25:TYR:HB3 | 1        | 6.95          |
| (1,3711) | 1:A:18:LEU:HB3 | 1:A:24:GLY:H   | 6        | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG2 | 5        | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG3 | 5        | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG2 | 12       | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG3 | 12       | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG2 | 17       | 6.95          |
| (1,3671) | 1:A:18:LEU:HA  | 1:A:30:PRO:HG3 | 17       | 6.95          |
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2 | 17       | 6.95          |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2 | 17       | 6.95          |
| (1,3307) | 1:A:15:ARG:HB2 | 1:A:27:GLY:HA2 | 9        | 6.95          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE1 | 13       | 6.95          |
| (1,3278) | 1:A:15:ARG:H   | 1:A:32:TYR:HE2 | 13       | 6.95          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H   | 8        | 6.95          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H   | 2        | 6.95          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H   | 4        | 6.95          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H   | 10       | 6.95          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA2 | 3        | 6.95          |
| (1,2916) | 1:A:11:TRP:HZ3 | 1:A:24:GLY:HA3 | 3        | 6.95          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 3        | 6.95          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 3        | 6.95          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB2 | 4        | 6.95          |
| (1,2853) | 1:A:11:TRP:HE1 | 1:A:20:CYS:HB3 | 4        | 6.95          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 4        | 6.95          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 4        | 6.95          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2 | 1        | 6.95          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 6        | 6.95          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 6        | 6.95          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 6        | 6.95          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 6        | 6.95          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 20       | 6.95          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2 | 18       | 6.95          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3 | 18       | 6.95          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 10       | 6.95          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 6        | 6.95          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H   | 12       | 6.95          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H   | 12       | 6.95          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 17       | 6.95          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 5        | 6.95          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 5        | 6.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 5        | 6.95          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 14       | 6.95          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 14       | 6.95          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 3        | 6.95          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 3        | 6.95          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 3        | 6.95          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 10       | 6.95          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 15       | 6.95          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 3        | 6.95          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 11       | 6.95          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 13       | 6.95          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 2        | 6.95          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 18       | 6.95          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 11       | 6.94          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 8        | 6.94          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 8        | 6.94          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 11       | 6.94          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 11       | 6.94          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1  | 9        | 6.94          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1  | 9        | 6.94          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 4        | 6.94          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 4        | 6.94          |
| (1,4719) | 1:A:27:GLY:HA3 | 1:A:35:HIS:HA   | 11       | 6.94          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2  | 12       | 6.94          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3  | 12       | 6.94          |
| (1,4690) | 1:A:27:GLY:H   | 1:A:34:ALA:HA   | 16       | 6.94          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA   | 10       | 6.94          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA   | 10       | 6.94          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA   | 17       | 6.94          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA   | 17       | 6.94          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2  | 5        | 6.94          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2  | 5        | 6.94          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3  | 5        | 6.94          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3  | 5        | 6.94          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H    | 9        | 6.94          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H    | 17       | 6.94          |
| (1,4453) | 1:A:24:GLY:H   | 1:A:31:LYS:HB3  | 12       | 6.94          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H    | 3        | 6.94          |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H    | 3        | 6.94          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H    | 18       | 6.94          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H    | 18       | 6.94          |
| (1,4362) | 1:A:23:TYR:HA  | 1:A:27:GLY:HA3  | 7        | 6.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 9        | 6.94          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 8        | 6.94          |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 14       | 6.94          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 19       | 6.94          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 2        | 6.94          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 2        | 6.94          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 20       | 6.94          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 14       | 6.94          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 14       | 6.94          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 14       | 6.94          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 18       | 6.94          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 18       | 6.94          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 19       | 6.94          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 2        | 6.94          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 4        | 6.94          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 15       | 6.94          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 17       | 6.94          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 10       | 6.94          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 10       | 6.94          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 1        | 6.94          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 1        | 6.94          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 11       | 6.94          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 15       | 6.94          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 17       | 6.94          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 8        | 6.94          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 8        | 6.94          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 12       | 6.94          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 12       | 6.94          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 8        | 6.94          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 19       | 6.94          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 19       | 6.94          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 19       | 6.94          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2 | 20       | 6.94          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2 | 20       | 6.94          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2 | 20       | 6.94          |
| (1,3752) | 1:A:18:LEU:HG   | 1:A:32:TYR:HA  | 14       | 6.94          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 10       | 6.94          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 12       | 6.94          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 12       | 6.94          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 12       | 6.94          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 10       | 6.94          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 10       | 6.94          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3362) | 1:A:15:ARG:HG2 | 1:A:21:SER:H    | 14       | 6.94          |
| (1,3362) | 1:A:15:ARG:HG3 | 1:A:21:SER:H    | 14       | 6.94          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H    | 12       | 6.94          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 20       | 6.94          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 11       | 6.94          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 12       | 6.94          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 18       | 6.94          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 19       | 6.94          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 20       | 6.94          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 3        | 6.94          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 1        | 6.94          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 16       | 6.94          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 16       | 6.94          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 16       | 6.94          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 10       | 6.94          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 10       | 6.94          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 11       | 6.94          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 11       | 6.94          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 16       | 6.94          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 13       | 6.94          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 11       | 6.94          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 14       | 6.94          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 14       | 6.94          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 14       | 6.94          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 14       | 6.94          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 5        | 6.94          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 15       | 6.94          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 17       | 6.94          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 14       | 6.94          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 14       | 6.94          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 5        | 6.94          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 20       | 6.94          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 20       | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 2        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 2        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 5        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 5        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 6        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 6        | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 10       | 6.94          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 10       | 6.94          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 10       | 6.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 11       | 6.94          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 11       | 6.94          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 5        | 6.94          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 5        | 6.94          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 11       | 6.94          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 15       | 6.94          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 15       | 6.94          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 17       | 6.94          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 17       | 6.94          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 10       | 6.94          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 16       | 6.94          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 16       | 6.94          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H   | 6        | 6.94          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H   | 15       | 6.94          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 13       | 6.94          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 5        | 6.94          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 6        | 6.94          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 6        | 6.94          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H   | 12       | 6.94          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H   | 16       | 6.94          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 1        | 6.94          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 7        | 6.94          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 6        | 6.93          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 14       | 6.93          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 1        | 6.93          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 1        | 6.93          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 11       | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 4        | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 4        | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 4        | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 4        | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 4        | 6.93          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 4        | 6.93          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3 | 9        | 6.93          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 6        | 6.93          |
| (1,4637) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB2 | 15       | 6.93          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2 | 7        | 6.93          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3 | 7        | 6.93          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 13       | 6.93          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 13       | 6.93          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H   | 9        | 6.93          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H   | 9        | 6.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 18       | 6.93          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 19       | 6.93          |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 12       | 6.93          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 10       | 6.93          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 10       | 6.93          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 1        | 6.93          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 1        | 6.93          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 11       | 6.93          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 16       | 6.93          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 8        | 6.93          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 8        | 6.93          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 12       | 6.93          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 12       | 6.93          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 10       | 6.93          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 18       | 6.93          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 8        | 6.93          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1 | 2        | 6.93          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2 | 2        | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 11       | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 11       | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 11       | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 19       | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 19       | 6.93          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 19       | 6.93          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 13       | 6.93          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 15       | 6.93          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 8        | 6.93          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 8        | 6.93          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 8        | 6.93          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 18       | 6.93          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 18       | 6.93          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 18       | 6.93          |
| (1,3751) | 1:A:18:LEU:HG   | 1:A:32:TYR:H   | 14       | 6.93          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 6        | 6.93          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 6        | 6.93          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 4        | 6.93          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 9        | 6.93          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 13       | 6.93          |
| (1,2997) | 1:A:12:GLY:H    | 1:A:20:CYS:H   | 5        | 6.93          |
| (1,2997) | 1:A:12:GLY:H    | 1:A:20:CYS:H   | 14       | 6.93          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB2 | 12       | 6.93          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB3 | 12       | 6.93          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 5        | 6.93          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 5        | 6.93          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 15       | 6.93          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 15       | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2 | 7        | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3 | 7        | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2 | 16       | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3 | 16       | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2 | 19       | 6.93          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3 | 19       | 6.93          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 8        | 6.93          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2 | 9        | 6.93          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 2        | 6.93          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 11       | 6.93          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 11       | 6.93          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 9        | 6.93          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 9        | 6.93          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 8        | 6.93          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 8        | 6.93          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 6        | 6.93          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 6        | 6.93          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 5        | 6.93          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 5        | 6.93          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1 | 4        | 6.93          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 5        | 6.93          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 5        | 6.93          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 17       | 6.93          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 7        | 6.93          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 19       | 6.93          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 15       | 6.93          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1 | 10       | 6.93          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2 | 10       | 6.93          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 17       | 6.93          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 17       | 6.93          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 6        | 6.93          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 13       | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 3        | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 3        | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 11       | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 11       | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 13       | 6.92          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 13       | 6.92          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 15       | 6.92          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 15       | 6.92          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE1 | 9        | 6.92          |
| (1,589)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HE2 | 9        | 6.92          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE1 | 9        | 6.92          |
| (1,589)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HE2 | 9        | 6.92          |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 11       | 6.92          |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 11       | 6.92          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 3        | 6.92          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 18       | 6.92          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 18       | 6.92          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 2        | 6.92          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 2        | 6.92          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 14       | 6.92          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 14       | 6.92          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 7        | 6.92          |
| (1,4540) | 1:A:25:TYR:HB2  | 1:A:33:CYS:H   | 2        | 6.92          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 18       | 6.92          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 18       | 6.92          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD2 | 14       | 6.92          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD2 | 14       | 6.92          |
| (1,4425) | 1:A:23:TYR:HE1  | 1:A:30:PRO:HD3 | 14       | 6.92          |
| (1,4425) | 1:A:23:TYR:HE2  | 1:A:30:PRO:HD3 | 14       | 6.92          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 13       | 6.92          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 13       | 6.92          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 13       | 6.92          |
| (1,4362) | 1:A:23:TYR:HA   | 1:A:27:GLY:HA3 | 20       | 6.92          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 6        | 6.92          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 6        | 6.92          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 5        | 6.92          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 8        | 6.92          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 18       | 6.92          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 13       | 6.92          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 16       | 6.92          |
| (1,4171) | 1:A:22:GLN:HB2  | 1:A:26:CYS:H   | 14       | 6.92          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 15       | 6.92          |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 14       | 6.92          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 16       | 6.92          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 16       | 6.92          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 12       | 6.92          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 3        | 6.92          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 3        | 6.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3  | 3        | 6.92          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1  | 6        | 6.92          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2  | 6        | 6.92          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3  | 6        | 6.92          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 18       | 6.92          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2  | 18       | 6.92          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3  | 18       | 6.92          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1  | 12       | 6.92          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2  | 12       | 6.92          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 13       | 6.92          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 13       | 6.92          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 13       | 6.92          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 13       | 6.92          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 13       | 6.92          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 16       | 6.92          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 16       | 6.92          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2  | 8        | 6.92          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3  | 8        | 6.92          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 2        | 6.92          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 2        | 6.92          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 2        | 6.92          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 1        | 6.92          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 1        | 6.92          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 1        | 6.92          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 18       | 6.92          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 18       | 6.92          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 18       | 6.92          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 19       | 6.92          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 19       | 6.92          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 19       | 6.92          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3  | 13       | 6.92          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 13       | 6.92          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 6        | 6.92          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 9        | 6.92          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 9        | 6.92          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 9        | 6.92          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 9        | 6.92          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA   | 3        | 6.92          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA   | 3        | 6.92          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA   | 4        | 6.92          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA   | 4        | 6.92          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3  | 7        | 6.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG   | 3        | 6.92          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG   | 6        | 6.92          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 7        | 6.92          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 6        | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 14       | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 14       | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 14       | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 14       | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 14       | 6.92          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 14       | 6.92          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 18       | 6.92          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 18       | 6.92          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 18       | 6.92          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 2        | 6.92          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 2        | 6.92          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2  | 3        | 6.92          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3  | 3        | 6.92          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 18       | 6.92          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 18       | 6.92          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 20       | 6.92          |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 20       | 6.92          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 13       | 6.92          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 9        | 6.92          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG2  | 12       | 6.92          |
| (1,2082) | 1:A:8:GLY:HA2  | 1:A:15:ARG:HG3  | 12       | 6.92          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 3        | 6.92          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 5        | 6.92          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 15       | 6.92          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 15       | 6.92          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 9        | 6.92          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 9        | 6.92          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 11       | 6.92          |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 11       | 6.92          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 4        | 6.92          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 4        | 6.92          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 2        | 6.92          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 2        | 6.92          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 2        | 6.92          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 1        | 6.92          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 1        | 6.92          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 13       | 6.92          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 13       | 6.92          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 9        | 6.92          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 9        | 6.92          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3 | 14       | 6.92          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD1 | 10       | 6.92          |
| (1,1527) | 1:A:6:GLN:H    | 1:A:23:TYR:HD2 | 10       | 6.92          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 20       | 6.92          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H   | 2        | 6.92          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H   | 1        | 6.92          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H   | 10       | 6.92          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 14       | 6.92          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 4        | 6.92          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 5        | 6.92          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 9        | 6.92          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 9        | 6.92          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 9        | 6.92          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 7        | 6.91          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 7        | 6.91          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE1 | 5        | 6.91          |
| (1,589)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HE2 | 5        | 6.91          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE1 | 5        | 6.91          |
| (1,589)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HE2 | 5        | 6.91          |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H   | 18       | 6.91          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA  | 10       | 6.91          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 16       | 6.91          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 16       | 6.91          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 16       | 6.91          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 16       | 6.91          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1 | 10       | 6.91          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2 | 10       | 6.91          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3 | 10       | 6.91          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA  | 10       | 6.91          |
| (1,4433) | 1:A:23:TYR:HE1 | 1:A:32:TYR:H   | 9        | 6.91          |
| (1,4433) | 1:A:23:TYR:HE2 | 1:A:32:TYR:H   | 9        | 6.91          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 1        | 6.91          |
| (1,4419) | 1:A:23:TYR:HE2 | 1:A:28:SER:H   | 1        | 6.91          |
| (1,4362) | 1:A:23:TYR:HA  | 1:A:27:GLY:HA3 | 12       | 6.91          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H   | 8        | 6.91          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H   | 14       | 6.91          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB2 | 9        | 6.91          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB3 | 9        | 6.91          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB2 | 16       | 6.91          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB3 | 16       | 6.91          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H    | 13       | 6.91          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 16       | 6.91          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 16       | 6.91          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 12       | 6.91          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA   | 18       | 6.91          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1  | 14       | 6.91          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2  | 14       | 6.91          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 6        | 6.91          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 6        | 6.91          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H    | 15       | 6.91          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H    | 15       | 6.91          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H    | 15       | 6.91          |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 10       | 6.91          |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 10       | 6.91          |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 10       | 6.91          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 3        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 3        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 3        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 7        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 7        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 7        | 6.91          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 20       | 6.91          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 20       | 6.91          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 20       | 6.91          |
| (1,3720) | 1:A:18:LEU:HB3  | 1:A:31:LYS:H    | 14       | 6.91          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H    | 14       | 6.91          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1  | 20       | 6.91          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2  | 20       | 6.91          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 10       | 6.91          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 8        | 6.91          |
| (1,3293) | 1:A:15:ARG:HB2  | 1:A:21:SER:H    | 1        | 6.91          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1  | 13       | 6.91          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2  | 13       | 6.91          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H    | 6        | 6.91          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 3        | 6.91          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB2  | 13       | 6.91          |
| (1,2863) | 1:A:11:TRP:HE1  | 1:A:23:TYR:HB3  | 13       | 6.91          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 19       | 6.91          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 19       | 6.91          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 19       | 6.91          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2  | 1        | 6.91          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3  | 1        | 6.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H    | 13       | 6.91          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 20       | 6.91          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 20       | 6.91          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 6        | 6.91          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 6        | 6.91          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 12       | 6.91          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 20       | 6.91          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 1        | 6.91          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 4        | 6.91          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 6        | 6.91          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 11       | 6.91          |
| (1,2040) | 1:A:8:GLY:H    | 1:A:19:CYS:H    | 17       | 6.91          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 10       | 6.91          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 15       | 6.91          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 15       | 6.91          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 1        | 6.91          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 13       | 6.91          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 9        | 6.91          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 9        | 6.91          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 12       | 6.91          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 12       | 6.91          |
| (1,1515) | 1:A:6:GLN:H    | 1:A:15:ARG:HE   | 1        | 6.91          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 14       | 6.91          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 14       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 17       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 17       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 17       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 17       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 17       | 6.91          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 17       | 6.91          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 17       | 6.91          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 17       | 6.91          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 17       | 6.91          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1  | 13       | 6.91          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2  | 13       | 6.91          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 1        | 6.91          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 6        | 6.91          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 5        | 6.91          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 5        | 6.91          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H    | 11       | 6.91          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 15       | 6.91          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 15       | 6.91          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H   | 1        | 6.9           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2  | 1        | 6.9           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2  | 1        | 6.9           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 1        | 6.9           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 1        | 6.9           |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 17       | 6.9           |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 17       | 6.9           |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1 | 6        | 6.9           |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1 | 14       | 6.9           |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1 | 14       | 6.9           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 9        | 6.9           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 9        | 6.9           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 9        | 6.9           |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 3        | 6.9           |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 20       | 6.9           |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 20       | 6.9           |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 11       | 6.9           |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 11       | 6.9           |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 8        | 6.9           |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 8        | 6.9           |
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H   | 19       | 6.9           |
| (1,4345) | 1:A:23:TYR:H    | 1:A:28:SER:H   | 12       | 6.9           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 10       | 6.9           |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 10       | 6.9           |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 6        | 6.9           |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 14       | 6.9           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 3        | 6.9           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 3        | 6.9           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 6        | 6.9           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 6        | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 8        | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 8        | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 11       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 11       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 17       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 17       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 18       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 18       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 20       | 6.9           |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 20       | 6.9           |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 10       | 6.9           |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 16       | 6.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 14       | 6.9           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 17       | 6.9           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 18       | 6.9           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 19       | 6.9           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 20       | 6.9           |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 8        | 6.9           |
| (1,4080) | 1:A:21:SER:HG   | 1:A:29:GLY:HA3 | 12       | 6.9           |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 9        | 6.9           |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 19       | 6.9           |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 20       | 6.9           |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 5        | 6.9           |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 5        | 6.9           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 14       | 6.9           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 14       | 6.9           |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 14       | 6.9           |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 13       | 6.9           |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 12       | 6.9           |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 12       | 6.9           |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 12       | 6.9           |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 4        | 6.9           |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 4        | 6.9           |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 4        | 6.9           |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 15       | 6.9           |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 15       | 6.9           |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 15       | 6.9           |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 10       | 6.9           |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 10       | 6.9           |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 10       | 6.9           |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 9        | 6.9           |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 14       | 6.9           |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 8        | 6.9           |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 8        | 6.9           |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 15       | 6.9           |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 15       | 6.9           |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 5        | 6.9           |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 1        | 6.9           |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 12       | 6.9           |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 4        | 6.9           |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG  | 14       | 6.9           |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H   | 8        | 6.9           |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 8        | 6.9           |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 8        | 6.9           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 9        | 6.9           |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 9        | 6.9           |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 12       | 6.9           |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 12       | 6.9           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB2  | 8        | 6.9           |
| (1,2678) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HB3  | 8        | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 7        | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 8        | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 12       | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 14       | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 16       | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 18       | 6.9           |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 19       | 6.9           |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 2        | 6.9           |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 4        | 6.9           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 12       | 6.9           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 12       | 6.9           |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 12       | 6.9           |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 9        | 6.9           |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H     | 11       | 6.9           |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 7        | 6.9           |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 7        | 6.9           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 12       | 6.9           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 12       | 6.9           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 14       | 6.9           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 14       | 6.9           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 9        | 6.9           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 9        | 6.9           |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 17       | 6.9           |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 17       | 6.9           |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 2        | 6.9           |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 10       | 6.9           |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 10       | 6.9           |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 20       | 6.9           |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 2        | 6.9           |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 12       | 6.9           |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 16       | 6.9           |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 9        | 6.89          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 2        | 6.89          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 5        | 6.89          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 10       | 6.89          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 12       | 6.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 6        | 6.89          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 6        | 6.89          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 20       | 6.89          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 20       | 6.89          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2  | 3        | 6.89          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2  | 3        | 6.89          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3  | 3        | 6.89          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3  | 3        | 6.89          |
| (1,526)  | 1:A:1:SER:HA   | 1:A:25:TYR:H   | 10       | 6.89          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 4        | 6.89          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 4        | 6.89          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 6        | 6.89          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 6        | 6.89          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3 | 17       | 6.89          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 16       | 6.89          |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA  | 5        | 6.89          |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA  | 5        | 6.89          |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3 | 6        | 6.89          |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3 | 6        | 6.89          |
| (1,4376) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HB2 | 17       | 6.89          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H   | 18       | 6.89          |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD2 | 20       | 6.89          |
| (1,4261) | 1:A:22:GLN:HG3 | 1:A:30:PRO:HD3 | 20       | 6.89          |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H   | 2        | 6.89          |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1 | 16       | 6.89          |
| (1,4152) | 1:A:22:GLN:HA  | 1:A:33:CYS:HB2 | 5        | 6.89          |
| (1,4152) | 1:A:22:GLN:HA  | 1:A:33:CYS:HB3 | 5        | 6.89          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB2 | 19       | 6.89          |
| (1,4118) | 1:A:22:GLN:H   | 1:A:30:PRO:HB3 | 19       | 6.89          |
| (1,4086) | 1:A:21:SER:HG  | 1:A:31:LYS:HB2 | 8        | 6.89          |
| (1,4084) | 1:A:21:SER:HG  | 1:A:31:LYS:H   | 16       | 6.89          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1 | 5        | 6.89          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2 | 5        | 6.89          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3 | 5        | 6.89          |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD1 | 12       | 6.89          |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD2 | 12       | 6.89          |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2 | 5        | 6.89          |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2 | 20       | 6.89          |
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG2 | 2        | 6.89          |
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG3 | 2        | 6.89          |
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG2 | 4        | 6.89          |
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG3 | 4        | 6.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG2 | 14       | 6.89          |
| (1,3837) | 1:A:19:CYS:H   | 1:A:30:PRO:HG3 | 14       | 6.89          |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD1 | 3        | 6.89          |
| (1,3825) | 1:A:19:CYS:H   | 1:A:23:TYR:HD2 | 3        | 6.89          |
| (1,3747) | 1:A:18:LEU:HG  | 1:A:29:GLY:HA3 | 7        | 6.89          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H   | 15       | 6.89          |
| (1,3510) | 1:A:16:GLY:HA2 | 1:A:27:GLY:H   | 18       | 6.89          |
| (1,3510) | 1:A:16:GLY:HA2 | 1:A:27:GLY:H   | 20       | 6.89          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA  | 2        | 6.89          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA  | 2        | 6.89          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H   | 4        | 6.89          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 18       | 6.89          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3 | 19       | 6.89          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 10       | 6.89          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H   | 8        | 6.89          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2 | 11       | 6.89          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3 | 11       | 6.89          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 13       | 6.89          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 13       | 6.89          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 15       | 6.89          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 15       | 6.89          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H   | 13       | 6.89          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H   | 6        | 6.89          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2 | 17       | 6.89          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3 | 17       | 6.89          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H   | 13       | 6.89          |
| (1,2624) | 1:A:11:TRP:HA  | 1:A:26:CYS:H   | 17       | 6.89          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 15       | 6.89          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB2 | 3        | 6.89          |
| (1,2115) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HB3 | 3        | 6.89          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H   | 13       | 6.89          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 1        | 6.89          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 13       | 6.89          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 8        | 6.89          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 8        | 6.89          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 12       | 6.89          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 12       | 6.89          |
| (1,1863) | 1:A:6:GLN:HE22 | 1:A:8:GLY:H    | 15       | 6.89          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 13       | 6.89          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 13       | 6.89          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 18       | 6.89          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 18       | 6.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 19       | 6.89          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 19       | 6.89          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 8        | 6.89          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 5        | 6.89          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 14       | 6.89          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 18       | 6.89          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H   | 20       | 6.89          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 14       | 6.89          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 14       | 6.89          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 13       | 6.89          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 13       | 6.89          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H   | 5        | 6.89          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 6        | 6.89          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1 | 1        | 6.89          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2 | 1        | 6.89          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 2        | 6.89          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 2        | 6.89          |
| (1,1058) | 1:A:4:ASN:H    | 1:A:11:TRP:H   | 13       | 6.89          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 9        | 6.89          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 14       | 6.89          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 8        | 6.89          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2 | 14       | 6.88          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 19       | 6.88          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1 | 9        | 6.88          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 9        | 6.88          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1 | 9        | 6.88          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA  | 19       | 6.88          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA  | 19       | 6.88          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 4        | 6.88          |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H   | 1        | 6.88          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 14       | 6.88          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 19       | 6.88          |
| (1,4653) | 1:A:26:CYS:HB2 | 1:A:29:GLY:H   | 20       | 6.88          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2 | 19       | 6.88          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2 | 19       | 6.88          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3 | 19       | 6.88          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3 | 19       | 6.88          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H   | 16       | 6.88          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H   | 18       | 6.88          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H   | 19       | 6.88          |
| (1,4522) | 1:A:25:TYR:H   | 1:A:33:CYS:H   | 20       | 6.88          |
| (1,4361) | 1:A:23:TYR:HA  | 1:A:27:GLY:H   | 16       | 6.88          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4361) | 1:A:23:TYR:HA   | 1:A:27:GLY:H    | 20       | 6.88          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H    | 10       | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 2        | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 2        | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 4        | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 4        | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 15       | 6.88          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 15       | 6.88          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2  | 1        | 6.88          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3  | 1        | 6.88          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2  | 18       | 6.88          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 15       | 6.88          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 1        | 6.88          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 1        | 6.88          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 13       | 6.88          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE1  | 14       | 6.88          |
| (1,3988) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HE2  | 14       | 6.88          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 14       | 6.88          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 14       | 6.88          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1  | 5        | 6.88          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2  | 5        | 6.88          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2  | 12       | 6.88          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3  | 12       | 6.88          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 8        | 6.88          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 8        | 6.88          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2  | 14       | 6.88          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2  | 17       | 6.88          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA   | 6        | 6.88          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA   | 6        | 6.88          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA   | 6        | 6.88          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H    | 1        | 6.88          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3  | 16       | 6.88          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG2  | 20       | 6.88          |
| (1,3612) | 1:A:17:GLY:HA2  | 1:A:30:PRO:HG3  | 20       | 6.88          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H    | 13       | 6.88          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H    | 16       | 6.88          |
| (1,3381) | 1:A:15:ARG:HG2  | 1:A:29:GLY:H    | 13       | 6.88          |
| (1,3381) | 1:A:15:ARG:HG3  | 1:A:29:GLY:H    | 13       | 6.88          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H    | 12       | 6.88          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H    | 12       | 6.88          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H    | 20       | 6.88          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H    | 20       | 6.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H    | 6        | 6.88          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H    | 11       | 6.88          |
| (1,3284) | 1:A:15:ARG:HA  | 1:A:27:GLY:HA3  | 7        | 6.88          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG   | 2        | 6.88          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 1        | 6.88          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 2        | 6.88          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 4        | 6.88          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 10       | 6.88          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD11 | 20       | 6.88          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD12 | 20       | 6.88          |
| (1,2790) | 1:A:11:TRP:HE3 | 1:A:18:LEU:HD13 | 20       | 6.88          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 19       | 6.88          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2  | 6        | 6.88          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3  | 6        | 6.88          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1  | 10       | 6.88          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2  | 10       | 6.88          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1  | 10       | 6.88          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2  | 10       | 6.88          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2  | 13       | 6.88          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2  | 3        | 6.88          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 10       | 6.88          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 10       | 6.88          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 3        | 6.88          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 3        | 6.88          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 17       | 6.88          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 13       | 6.88          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 13       | 6.88          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 20       | 6.88          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 20       | 6.88          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 17       | 6.88          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 7        | 6.88          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 7        | 6.88          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 16       | 6.88          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 19       | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 5        | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 5        | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 5        | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 5        | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 5        | 6.88          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 5        | 6.88          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 18       | 6.88          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 18       | 6.88          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD1 | 8        | 6.88          |
| (1,1237) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HD2 | 8        | 6.88          |
| (1,1220) | 1:A:4:ASN:HB3   | 1:A:24:GLY:H   | 15       | 6.88          |
| (1,1191) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HE1 | 10       | 6.88          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2 | 13       | 6.88          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3 | 13       | 6.88          |
| (1,1058) | 1:A:4:ASN:H     | 1:A:11:TRP:H   | 9        | 6.88          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 16       | 6.87          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 16       | 6.87          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 19       | 6.87          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 19       | 6.87          |
| (1,4758) | 1:A:28:SER:HB3  | 1:A:35:HIS:HD2 | 13       | 6.87          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1 | 8        | 6.87          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2 | 8        | 6.87          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3 | 8        | 6.87          |
| (1,4653) | 1:A:26:CYS:HB2  | 1:A:29:GLY:H   | 18       | 6.87          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 18       | 6.87          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 10       | 6.87          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 2        | 6.87          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 13       | 6.87          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 7        | 6.87          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 7        | 6.87          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 14       | 6.87          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3 | 17       | 6.87          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 19       | 6.87          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 4        | 6.87          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 10       | 6.87          |
| (1,4180) | 1:A:22:GLN:HG2  | 1:A:27:GLY:HA2 | 15       | 6.87          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 13       | 6.87          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 13       | 6.87          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 13       | 6.87          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 13       | 6.87          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 15       | 6.87          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 15       | 6.87          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 4        | 6.87          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 8        | 6.87          |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H   | 13       | 6.87          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 4        | 6.87          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 4        | 6.87          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 9        | 6.87          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 9        | 6.87          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 11       | 6.87          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 13       | 6.87          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 13       | 6.87          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 12       | 6.87          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 4        | 6.87          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 4        | 6.87          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 17       | 6.87          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 3        | 6.87          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 3        | 6.87          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 6        | 6.87          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 6        | 6.87          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 17       | 6.87          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 17       | 6.87          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 17       | 6.87          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 17       | 6.87          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 12       | 6.87          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 12       | 6.87          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 12       | 6.87          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 2        | 6.87          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 2        | 6.87          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 2        | 6.87          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 6        | 6.87          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 6        | 6.87          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 9        | 6.87          |
| (1,3588) | 1:A:17:GLY:H    | 1:A:35:HIS:HD2 | 13       | 6.87          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H   | 5        | 6.87          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 19       | 6.87          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 17       | 6.87          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 17       | 6.87          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 5        | 6.87          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 5        | 6.87          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 10       | 6.87          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 5        | 6.87          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 17       | 6.87          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 11       | 6.87          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 9        | 6.87          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1 | 13       | 6.87          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2 | 13       | 6.87          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 15       | 6.87          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2 | 11       | 6.87          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3 | 11       | 6.87          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB2 | 9        | 6.87          |
| (1,2678) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HB3 | 9        | 6.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 18       | 6.87          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 4        | 6.87          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 4        | 6.87          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2 | 11       | 6.87          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2 | 15       | 6.87          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 19       | 6.87          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 19       | 6.87          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 17       | 6.87          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 17       | 6.87          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 8        | 6.87          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 8        | 6.87          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1 | 15       | 6.87          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2 | 15       | 6.87          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 4        | 6.87          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 3        | 6.87          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 3        | 6.87          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 6        | 6.87          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1 | 15       | 6.87          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA  | 5        | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 5        | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 5        | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 10       | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 10       | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 11       | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 11       | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 12       | 6.87          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 12       | 6.87          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2 | 15       | 6.87          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3 | 15       | 6.87          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 6        | 6.87          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 5        | 6.87          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 14       | 6.87          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 17       | 6.87          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2 | 8        | 6.86          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 9        | 6.86          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 14       | 6.86          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 14       | 6.86          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 7        | 6.86          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 7        | 6.86          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 8        | 6.86          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG3  | 8        | 6.86          |
| (1,606)  | 1:A:2:GLY:H    | 1:A:9:PRO:HG2  | 10       | 6.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 10       | 6.86          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 14       | 6.86          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 14       | 6.86          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2  | 17       | 6.86          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3  | 17       | 6.86          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2  | 20       | 6.86          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2  | 20       | 6.86          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 20       | 6.86          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 20       | 6.86          |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 5        | 6.86          |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 5        | 6.86          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 14       | 6.86          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 12       | 6.86          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 12       | 6.86          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 1        | 6.86          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 10       | 6.86          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 16       | 6.86          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 16       | 6.86          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 13       | 6.86          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 16       | 6.86          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 16       | 6.86          |
| (1,4386) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HE1 | 19       | 6.86          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 20       | 6.86          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 1        | 6.86          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 1        | 6.86          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 14       | 6.86          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 5        | 6.86          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 7        | 6.86          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 16       | 6.86          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 16       | 6.86          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 18       | 6.86          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 19       | 6.86          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 7        | 6.86          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 7        | 6.86          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 1        | 6.86          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 3        | 6.86          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 3        | 6.86          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 6        | 6.86          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 6        | 6.86          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 17       | 6.86          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 17       | 6.86          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 17       | 6.86          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 6        | 6.86          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2  | 5        | 6.86          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3  | 5        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 4        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 4        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 4        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 8        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 8        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 8        | 6.86          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 13       | 6.86          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 13       | 6.86          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 13       | 6.86          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1  | 1        | 6.86          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2  | 1        | 6.86          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3  | 1        | 6.86          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H    | 20       | 6.86          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H    | 5        | 6.86          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H    | 5        | 6.86          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H    | 3        | 6.86          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H    | 8        | 6.86          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H    | 9        | 6.86          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H    | 13       | 6.86          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 2        | 6.86          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 10       | 6.86          |
| (1,3095) | 1:A:13:GLY:H    | 1:A:19:CYS:H    | 9        | 6.86          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2  | 1        | 6.86          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3  | 1        | 6.86          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB2  | 15       | 6.86          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB3  | 15       | 6.86          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 4        | 6.86          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 5        | 6.86          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 10       | 6.86          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 14       | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 7        | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 7        | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 7        | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD11 | 9        | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD12 | 9        | 6.86          |
| (1,2790) | 1:A:11:TRP:HE3  | 1:A:18:LEU:HD13 | 9        | 6.86          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2  | 14       | 6.86          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3  | 14       | 6.86          |
| (1,2677) | 1:A:11:TRP:HB3  | 1:A:15:ARG:H    | 12       | 6.86          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 2        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 2        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 3        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 3        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 5        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 5        | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 10       | 6.86          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 10       | 6.86          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 9        | 6.86          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 9        | 6.86          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 9        | 6.86          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 9        | 6.86          |
| (1,2105) | 1:A:8:GLY:HA3  | 1:A:11:TRP:HH2 | 1        | 6.86          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 13       | 6.86          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 13       | 6.86          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 7        | 6.86          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 7        | 6.86          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3 | 18       | 6.86          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3 | 18       | 6.86          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2  | 4        | 6.86          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3  | 4        | 6.86          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 18       | 6.86          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 18       | 6.86          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 6        | 6.86          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 17       | 6.86          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 3        | 6.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 18       | 6.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 18       | 6.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 19       | 6.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 19       | 6.86          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 17       | 6.86          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 17       | 6.86          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 19       | 6.86          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 19       | 6.86          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 2        | 6.86          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 2        | 6.86          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H   | 1        | 6.86          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H   | 13       | 6.86          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 15       | 6.85          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 17       | 6.85          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 17       | 6.85          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3 | 3        | 6.85          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 16       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 18       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 18       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 19       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 19       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB2 | 20       | 6.85          |
| (1,4679) | 1:A:27:GLY:H    | 1:A:30:PRO:HB3 | 20       | 6.85          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 9        | 6.85          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 18       | 6.85          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 18       | 6.85          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 4        | 6.85          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 12       | 6.85          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 12       | 6.85          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2 | 17       | 6.85          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3 | 17       | 6.85          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2 | 17       | 6.85          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3 | 17       | 6.85          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 13       | 6.85          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 13       | 6.85          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 3        | 6.85          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 3        | 6.85          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 16       | 6.85          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 16       | 6.85          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 16       | 6.85          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 7        | 6.85          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 7        | 6.85          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 7        | 6.85          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 9        | 6.85          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 9        | 6.85          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 17       | 6.85          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 17       | 6.85          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 20       | 6.85          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 2        | 6.85          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 8        | 6.85          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 18       | 6.85          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 11       | 6.85          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 11       | 6.85          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 13       | 6.85          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 13       | 6.85          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 8        | 6.85          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 8        | 6.85          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 15       | 6.85          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 15       | 6.85          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 20       | 6.85          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 20       | 6.85          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 17       | 6.85          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 17       | 6.85          |
| (1,3840) | 1:A:19:CYS:H    | 1:A:31:LYS:HG3 | 16       | 6.85          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 9        | 6.85          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 9        | 6.85          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 9        | 6.85          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 5        | 6.85          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 5        | 6.85          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 5        | 6.85          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 4        | 6.85          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 3        | 6.85          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 11       | 6.85          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 18       | 6.85          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 18       | 6.85          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 12       | 6.85          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 20       | 6.85          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 20       | 6.85          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H   | 18       | 6.85          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H   | 18       | 6.85          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 11       | 6.85          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 11       | 6.85          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 18       | 6.85          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 19       | 6.85          |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 20       | 6.85          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 3        | 6.85          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 11       | 6.85          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2 | 20       | 6.85          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3 | 20       | 6.85          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 15       | 6.85          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 15       | 6.85          |
| (1,2677) | 1:A:11:TRP:HB3  | 1:A:15:ARG:H   | 7        | 6.85          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 8        | 6.85          |
| (1,2221) | 1:A:9:PRO:HB2   | 1:A:24:GLY:HA2 | 13       | 6.85          |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB2 | 17       | 6.85          |
| (1,2086) | 1:A:8:GLY:HA2   | 1:A:22:GLN:HB3 | 17       | 6.85          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 14       | 6.85          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 14       | 6.85          |
| (1,1999) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HB3 | 19       | 6.85          |
| (1,1999) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HB3 | 19       | 6.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2  | 1        | 6.85          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3  | 1        | 6.85          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 1        | 6.85          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 1        | 6.85          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 1        | 6.85          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 17       | 6.85          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 17       | 6.85          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 7        | 6.85          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 7        | 6.85          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 16       | 6.85          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 16       | 6.85          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 1        | 6.85          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 1        | 6.85          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD1  | 11       | 6.85          |
| (1,1780) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HD2  | 11       | 6.85          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 11       | 6.85          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 11       | 6.85          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 19       | 6.85          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 19       | 6.85          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 4        | 6.85          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 16       | 6.85          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 16       | 6.85          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 6        | 6.85          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 6        | 6.85          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 6        | 6.85          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 11       | 6.85          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 11       | 6.85          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 2        | 6.85          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 8        | 6.85          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 12       | 6.85          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 9        | 6.84          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 7        | 6.84          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 20       | 6.84          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 20       | 6.84          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 20       | 6.84          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3  | 14       | 6.84          |
| (1,4625) | 1:A:26:CYS:H   | 1:A:33:CYS:HA   | 2        | 6.84          |
| (1,4625) | 1:A:26:CYS:H   | 1:A:33:CYS:HA   | 12       | 6.84          |
| (1,4625) | 1:A:26:CYS:H   | 1:A:33:CYS:HA   | 15       | 6.84          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG2  | 2        | 6.84          |
| (1,4550) | 1:A:25:TYR:HB3 | 1:A:31:LYS:HG3  | 2        | 6.84          |
| (1,4517) | 1:A:25:TYR:H   | 1:A:31:LYS:HB3  | 4        | 6.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD2 | 8        | 6.84          |
| (1,4474) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HD3 | 8        | 6.84          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 15       | 6.84          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 15       | 6.84          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 5        | 6.84          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 5        | 6.84          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 13       | 6.84          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 13       | 6.84          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 13       | 6.84          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 13       | 6.84          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 8        | 6.84          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 3        | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 17       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 17       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 18       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 18       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 19       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 19       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 20       | 6.84          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 20       | 6.84          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 18       | 6.84          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 19       | 6.84          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 20       | 6.84          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 4        | 6.84          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 11       | 6.84          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 11       | 6.84          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 12       | 6.84          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 5        | 6.84          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 5        | 6.84          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 5        | 6.84          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 7        | 6.84          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 3        | 6.84          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 19       | 6.84          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 19       | 6.84          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 15       | 6.84          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 15       | 6.84          |
| (1,3373) | 1:A:15:ARG:HG2  | 1:A:25:TYR:HB3 | 11       | 6.84          |
| (1,3373) | 1:A:15:ARG:HG3  | 1:A:25:TYR:HB3 | 11       | 6.84          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 14       | 6.84          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 2        | 6.84          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1 | 1        | 6.84          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2 | 1        | 6.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1  | 5        | 6.84          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2  | 5        | 6.84          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 15       | 6.84          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 10       | 6.84          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 10       | 6.84          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 1        | 6.84          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 8        | 6.84          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 17       | 6.84          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 17       | 6.84          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 11       | 6.84          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 11       | 6.84          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 20       | 6.84          |
| (1,2199) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HH2  | 13       | 6.84          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 3        | 6.84          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 3        | 6.84          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 9        | 6.84          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 9        | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 11       | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 11       | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 11       | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 17       | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 17       | 6.84          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 17       | 6.84          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 8        | 6.84          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 8        | 6.84          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 3        | 6.84          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 4        | 6.84          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 4        | 6.84          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 7        | 6.84          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 7        | 6.84          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 8        | 6.84          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 8        | 6.84          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 1        | 6.84          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 1        | 6.84          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 8        | 6.84          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 8        | 6.84          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 3        | 6.84          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 9        | 6.84          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 17       | 6.84          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 14       | 6.84          |
| (1,1215) | 1:A:4:ASN:HB3  | 1:A:23:TYR:H    | 2        | 6.84          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 9        | 6.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 20       | 6.84          |
| (1,1005) | 1:A:3:PRO:HD3   | 1:A:12:GLY:H   | 10       | 6.84          |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 18       | 6.83          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2 | 18       | 6.83          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3 | 18       | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 5        | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 5        | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 12       | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 12       | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 18       | 6.83          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 18       | 6.83          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1 | 1        | 6.83          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2 | 1        | 6.83          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1 | 1        | 6.83          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2 | 1        | 6.83          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1 | 16       | 6.83          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1 | 16       | 6.83          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1 | 16       | 6.83          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 6        | 6.83          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 6        | 6.83          |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 8        | 6.83          |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 16       | 6.83          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 14       | 6.83          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2 | 8        | 6.83          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3 | 8        | 6.83          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 3        | 6.83          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 3        | 6.83          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 6        | 6.83          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 8        | 6.83          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 14       | 6.83          |
| (1,4517) | 1:A:25:TYR:H    | 1:A:31:LYS:HB3 | 12       | 6.83          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 15       | 6.83          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 15       | 6.83          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 18       | 6.83          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 18       | 6.83          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 3        | 6.83          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 20       | 6.83          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 1        | 6.83          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 1        | 6.83          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 16       | 6.83          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 16       | 6.83          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2 | 2        | 6.83          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3 | 2        | 6.83          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 3        | 6.83          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 3        | 6.83          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 17       | 6.83          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 15       | 6.83          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 6        | 6.83          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 6        | 6.83          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 10       | 6.83          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 10       | 6.83          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 13       | 6.83          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 13       | 6.83          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 13       | 6.83          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 13       | 6.83          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 13       | 6.83          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 5        | 6.83          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 5        | 6.83          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 5        | 6.83          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 10       | 6.83          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 10       | 6.83          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 10       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 12       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 12       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 12       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 15       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 15       | 6.83          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 15       | 6.83          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 9        | 6.83          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 13       | 6.83          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 18       | 6.83          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 19       | 6.83          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 11       | 6.83          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 11       | 6.83          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 11       | 6.83          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 4        | 6.83          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 4        | 6.83          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 4        | 6.83          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 8        | 6.83          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 10       | 6.83          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 5        | 6.83          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 5        | 6.83          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 5        | 6.83          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 17       | 6.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2  | 12       | 6.83          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 14       | 6.83          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H    | 17       | 6.83          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 2        | 6.83          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 2        | 6.83          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 1        | 6.83          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 9        | 6.83          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 12       | 6.83          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 12       | 6.83          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 1        | 6.83          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 1        | 6.83          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H    | 2        | 6.83          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 18       | 6.83          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 19       | 6.83          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 7        | 6.83          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 9        | 6.83          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 18       | 6.83          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 19       | 6.83          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3  | 4        | 6.83          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3  | 4        | 6.83          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 19       | 6.83          |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 19       | 6.83          |
| (1,2019) | 1:A:7:CYS:HB2  | 1:A:35:HIS:HD2  | 1        | 6.83          |
| (1,2019) | 1:A:7:CYS:HB3  | 1:A:35:HIS:HD2  | 1        | 6.83          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 15       | 6.83          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 15       | 6.83          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 9        | 6.83          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 12       | 6.83          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 12       | 6.83          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2  | 15       | 6.83          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3  | 15       | 6.83          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 4        | 6.83          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 9        | 6.83          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 17       | 6.83          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 17       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 13       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 13       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 13       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 13       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 13       | 6.83          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 13       | 6.83          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 10       | 6.83          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H    | 14       | 6.83          |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H    | 15       | 6.83          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2  | 1        | 6.83          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3  | 1        | 6.83          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2  | 15       | 6.83          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3  | 15       | 6.83          |
| (1,1031) | 1:A:3:PRO:HD3   | 1:A:26:CYS:H    | 20       | 6.83          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 13       | 6.83          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 13       | 6.83          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 13       | 6.83          |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2  | 20       | 6.82          |
| (1,526)  | 1:A:1:SER:HA    | 1:A:25:TYR:H    | 5        | 6.82          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2  | 3        | 6.82          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 2        | 6.82          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 2        | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2  | 15       | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2  | 15       | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2  | 15       | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3  | 15       | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3  | 15       | 6.82          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3  | 15       | 6.82          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1  | 4        | 6.82          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2  | 8        | 6.82          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA   | 3        | 6.82          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA   | 5        | 6.82          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2  | 9        | 6.82          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3  | 9        | 6.82          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H    | 2        | 6.82          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H    | 2        | 6.82          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H    | 6        | 6.82          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H    | 6        | 6.82          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 8        | 6.82          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 8        | 6.82          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 12       | 6.82          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 12       | 6.82          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB2  | 4        | 6.82          |
| (1,4118) | 1:A:22:GLN:H    | 1:A:30:PRO:HB3  | 4        | 6.82          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA   | 5        | 6.82          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA   | 6        | 6.82          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2  | 13       | 6.82          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 15       | 6.82          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 15       | 6.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 15       | 6.82          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 8        | 6.82          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 8        | 6.82          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 1        | 6.82          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 1        | 6.82          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 11       | 6.82          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 11       | 6.82          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 14       | 6.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 1        | 6.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 1        | 6.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 1        | 6.82          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 1        | 6.82          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 1        | 6.82          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 1        | 6.82          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 20       | 6.82          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 6        | 6.82          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 6        | 6.82          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 6        | 6.82          |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 17       | 6.82          |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 17       | 6.82          |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 17       | 6.82          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 3        | 6.82          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 8        | 6.82          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 4        | 6.82          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 4        | 6.82          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 3        | 6.82          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 12       | 6.82          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 1        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 2        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 2        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 2        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 5        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 5        | 6.82          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 5        | 6.82          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2 | 16       | 6.82          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3 | 16       | 6.82          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 8        | 6.82          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 8        | 6.82          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 17       | 6.82          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 17       | 6.82          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1 | 5        | 6.82          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2 | 5        | 6.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG   | 6        | 6.82          |
| (1,3099) | 1:A:13:GLY:H   | 1:A:21:SER:H    | 17       | 6.82          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 10       | 6.82          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 10       | 6.82          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 7        | 6.82          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 12       | 6.82          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 16       | 6.82          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 18       | 6.82          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H    | 20       | 6.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 18       | 6.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 18       | 6.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2  | 19       | 6.82          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3  | 19       | 6.82          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 7        | 6.82          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 16       | 6.82          |
| (1,2113) | 1:A:8:GLY:HA3  | 1:A:22:GLN:H    | 17       | 6.82          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2  | 3        | 6.82          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 12       | 6.82          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 12       | 6.82          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 20       | 6.82          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 20       | 6.82          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 6        | 6.82          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 6        | 6.82          |
| (1,1421) | 1:A:5:GLY:H    | 1:A:19:CYS:H    | 7        | 6.82          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 7        | 6.82          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 7        | 6.82          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 13       | 6.82          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 13       | 6.82          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 13       | 6.82          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 4        | 6.82          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 2        | 6.82          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE1  | 4        | 6.82          |
| (1,1170) | 1:A:4:ASN:HB2  | 1:A:32:TYR:HE2  | 4        | 6.82          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 5        | 6.82          |
| (1,1005) | 1:A:3:PRO:HD3  | 1:A:12:GLY:H    | 11       | 6.82          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 12       | 6.81          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 17       | 6.81          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 17       | 6.81          |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 19       | 6.81          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 8        | 6.81          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 3        | 6.81          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 3        | 6.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 3        | 6.81          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 3        | 6.81          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 15       | 6.81          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 13       | 6.81          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 2        | 6.81          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 2        | 6.81          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 2        | 6.81          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 5        | 6.81          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 5        | 6.81          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 13       | 6.81          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 13       | 6.81          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 20       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 11       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 16       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 17       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 18       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 19       | 6.81          |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 20       | 6.81          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 8        | 6.81          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 8        | 6.81          |
| (1,4376) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HB2 | 6        | 6.81          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 7        | 6.81          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 7        | 6.81          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2 | 14       | 6.81          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3 | 14       | 6.81          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 5        | 6.81          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 6        | 6.81          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 16       | 6.81          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 6        | 6.81          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 6        | 6.81          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 12       | 6.81          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 12       | 6.81          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 7        | 6.81          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 7        | 6.81          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 5        | 6.81          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 10       | 6.81          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 10       | 6.81          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 6        | 6.81          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 6        | 6.81          |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 6        | 6.81          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 7        | 6.81          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 16       | 6.81          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 16       | 6.81          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3 | 12       | 6.81          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3 | 12       | 6.81          |
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2 | 18       | 6.81          |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2 | 18       | 6.81          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 9        | 6.81          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H   | 20       | 6.81          |
| (1,3199) | 1:A:14:CYS:HB2 | 1:A:22:GLN:H   | 7        | 6.81          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1 | 16       | 6.81          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2 | 16       | 6.81          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 20       | 6.81          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 13       | 6.81          |
| (1,2997) | 1:A:12:GLY:H   | 1:A:20:CYS:H   | 19       | 6.81          |
| (1,2864) | 1:A:11:TRP:HE1 | 1:A:24:GLY:H   | 3        | 6.81          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 17       | 6.81          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 17       | 6.81          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 20       | 6.81          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 5        | 6.81          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 5        | 6.81          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 5        | 6.81          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 5        | 6.81          |
| (1,1983) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HH2 | 17       | 6.81          |
| (1,1983) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HH2 | 17       | 6.81          |
| (1,1799) | 1:A:6:GLN:HE21 | 1:A:10:GLY:HA2 | 17       | 6.81          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 2        | 6.81          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 20       | 6.81          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 5        | 6.81          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 5        | 6.81          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB2 | 13       | 6.81          |
| (1,1557) | 1:A:6:GLN:HA   | 1:A:15:ARG:HB3 | 13       | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 5        | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 5        | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 7        | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 7        | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 15       | 6.81          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 15       | 6.81          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD1 | 7        | 6.81          |
| (1,1237) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HD2 | 7        | 6.81          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 10       | 6.81          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 18       | 6.81          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H   | 11       | 6.8           |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 20       | 6.8           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,572)  | 1:A:1:SER:HB3   | 1:A:24:GLY:H    | 20       | 6.8           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2   | 11       | 6.8           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2   | 11       | 6.8           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3   | 11       | 6.8           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3   | 11       | 6.8           |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3  | 3        | 6.8           |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3  | 3        | 6.8           |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3  | 9        | 6.8           |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3  | 9        | 6.8           |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2  | 4        | 6.8           |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3  | 4        | 6.8           |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2  | 1        | 6.8           |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3  | 1        | 6.8           |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2  | 11       | 6.8           |
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA   | 1        | 6.8           |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2  | 18       | 6.8           |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2  | 18       | 6.8           |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3  | 18       | 6.8           |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3  | 18       | 6.8           |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H    | 3        | 6.8           |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H    | 3        | 6.8           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2  | 8        | 6.8           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 8        | 6.8           |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 11       | 6.8           |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 11       | 6.8           |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 1        | 6.8           |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 1        | 6.8           |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 20       | 6.8           |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 3        | 6.8           |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 10       | 6.8           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2  | 11       | 6.8           |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3  | 11       | 6.8           |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 3        | 6.8           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 2        | 6.8           |
| (1,4084) | 1:A:21:SER:HG   | 1:A:31:LYS:H    | 4        | 6.8           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 17       | 6.8           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 17       | 6.8           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 1        | 6.8           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 1        | 6.8           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 15       | 6.8           |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 15       | 6.8           |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2  | 7        | 6.8           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 7        | 6.8           |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 19       | 6.8           |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 19       | 6.8           |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3 | 12       | 6.8           |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 8        | 6.8           |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 8        | 6.8           |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 8        | 6.8           |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 8        | 6.8           |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 16       | 6.8           |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 16       | 6.8           |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 16       | 6.8           |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 12       | 6.8           |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 20       | 6.8           |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 2        | 6.8           |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 14       | 6.8           |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 8        | 6.8           |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 12       | 6.8           |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3 | 13       | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 2        | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 2        | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 4        | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 4        | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 10       | 6.8           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 10       | 6.8           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB1 | 17       | 6.8           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB2 | 17       | 6.8           |
| (1,3521) | 1:A:16:GLY:HA2  | 1:A:34:ALA:HB3 | 17       | 6.8           |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 9        | 6.8           |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 12       | 6.8           |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 12       | 6.8           |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 8        | 6.8           |
| (1,3199) | 1:A:14:CYS:HB2  | 1:A:22:GLN:H   | 16       | 6.8           |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1 | 11       | 6.8           |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2 | 11       | 6.8           |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 5        | 6.8           |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 14       | 6.8           |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB2 | 9        | 6.8           |
| (1,2986) | 1:A:12:GLY:H    | 1:A:15:ARG:HB3 | 9        | 6.8           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2 | 5        | 6.8           |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3 | 5        | 6.8           |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 11       | 6.8           |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 11       | 6.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 8        | 6.8           |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 12       | 6.8           |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 11       | 6.8           |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE21 | 11       | 6.8           |
| (1,2088) | 1:A:8:GLY:HA2  | 1:A:22:GLN:HE22 | 11       | 6.8           |
| (1,2047) | 1:A:8:GLY:H    | 1:A:22:GLN:HA   | 17       | 6.8           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE21 | 19       | 6.8           |
| (1,1951) | 1:A:7:CYS:H    | 1:A:22:GLN:HE22 | 19       | 6.8           |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 5        | 6.8           |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 7        | 6.8           |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 8        | 6.8           |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 18       | 6.8           |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 19       | 6.8           |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 15       | 6.8           |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 15       | 6.8           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 6        | 6.8           |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 6        | 6.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 13       | 6.8           |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 13       | 6.8           |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 20       | 6.8           |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 16       | 6.8           |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H    | 18       | 6.8           |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 13       | 6.8           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 6        | 6.8           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 6        | 6.8           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 10       | 6.8           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 10       | 6.8           |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 6        | 6.8           |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 6        | 6.8           |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 13       | 6.8           |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 16       | 6.8           |
| (1,869)  | 1:A:3:PRO:HB3  | 1:A:26:CYS:HB2  | 16       | 6.79          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 12       | 6.79          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 12       | 6.79          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 19       | 6.79          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 19       | 6.79          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 11       | 6.79          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 11       | 6.79          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 11       | 6.79          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 11       | 6.79          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 4        | 6.79          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 4        | 6.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 6        | 6.79          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 14       | 6.79          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1 | 14       | 6.79          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2 | 14       | 6.79          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3 | 14       | 6.79          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 3        | 6.79          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 3        | 6.79          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 6        | 6.79          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 6        | 6.79          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 3        | 6.79          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 3        | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 4        | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 4        | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 4        | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB1 | 15       | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB2 | 15       | 6.79          |
| (1,4383) | 1:A:23:TYR:HB2  | 1:A:34:ALA:HB3 | 15       | 6.79          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 20       | 6.79          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 20       | 6.79          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 1        | 6.79          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 1        | 6.79          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB2 | 1        | 6.79          |
| (1,4152) | 1:A:22:GLN:HA   | 1:A:33:CYS:HB3 | 1        | 6.79          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 7        | 6.79          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 12       | 6.79          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 12       | 6.79          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 6        | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 5        | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 5        | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 9        | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 9        | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 17       | 6.79          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 17       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 18       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 18       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 19       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 19       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 20       | 6.79          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 20       | 6.79          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 19       | 6.79          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 2        | 6.79          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 2        | 6.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 2        | 6.79          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 6        | 6.79          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 6        | 6.79          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 6        | 6.79          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 11       | 6.79          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 11       | 6.79          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 11       | 6.79          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 12       | 6.79          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB2 | 1        | 6.79          |
| (1,3725) | 1:A:18:LEU:HB3  | 1:A:35:HIS:HB3 | 1        | 6.79          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 5        | 6.79          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 5        | 6.79          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 11       | 6.79          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 7        | 6.79          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 7        | 6.79          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 19       | 6.79          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 19       | 6.79          |
| (1,3284) | 1:A:15:ARG:HA   | 1:A:27:GLY:HA3 | 16       | 6.79          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1 | 1        | 6.79          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2 | 1        | 6.79          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 5        | 6.79          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 6        | 6.79          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA2 | 10       | 6.79          |
| (1,2975) | 1:A:11:TRP:HH2  | 1:A:24:GLY:HA3 | 10       | 6.79          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H   | 13       | 6.79          |
| (1,2751) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HA  | 17       | 6.79          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 1        | 6.79          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 1        | 6.79          |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H   | 12       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 7        | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 7        | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 16       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 16       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 18       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 18       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 19       | 6.79          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 19       | 6.79          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 14       | 6.79          |
| (1,2254) | 1:A:9:PRO:HB3   | 1:A:13:GLY:H   | 17       | 6.79          |
| (1,2221) | 1:A:9:PRO:HB2   | 1:A:24:GLY:HA2 | 1        | 6.79          |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE  | 9        | 6.79          |
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE  | 9        | 6.79          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2  | 14       | 6.79          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3  | 14       | 6.79          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 10       | 6.79          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 12       | 6.79          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 16       | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 1        | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 1        | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 11       | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 11       | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 16       | 6.79          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 16       | 6.79          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2 | 2        | 6.79          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3 | 2        | 6.79          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 11       | 6.79          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 11       | 6.79          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1 | 4        | 6.79          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2 | 4        | 6.79          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3 | 6        | 6.79          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3 | 18       | 6.79          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 19       | 6.79          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 20       | 6.79          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3 | 17       | 6.79          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H    | 3        | 6.79          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H   | 19       | 6.79          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 3        | 6.78          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2 | 2        | 6.78          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3 | 2        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 2        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 2        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 2        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 4        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 4        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 4        | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1 | 12       | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2 | 12       | 6.78          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3 | 12       | 6.78          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 10       | 6.78          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 10       | 6.78          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2 | 12       | 6.78          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3 | 12       | 6.78          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA  | 13       | 6.78          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3 | 11       | 6.78          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4625) | 1:A:26:CYS:H    | 1:A:33:CYS:HA  | 9        | 6.78          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 16       | 6.78          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 16       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 15       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 15       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 15       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 15       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 15       | 6.78          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 15       | 6.78          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 20       | 6.78          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 20       | 6.78          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 2        | 6.78          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 2        | 6.78          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 2        | 6.78          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 2        | 6.78          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 16       | 6.78          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 16       | 6.78          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 10       | 6.78          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 10       | 6.78          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 6        | 6.78          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 16       | 6.78          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 1        | 6.78          |
| (1,4096) | 1:A:21:SER:HG   | 1:A:34:ALA:H   | 16       | 6.78          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 14       | 6.78          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 14       | 6.78          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 15       | 6.78          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 15       | 6.78          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 10       | 6.78          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 10       | 6.78          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 9        | 6.78          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 18       | 6.78          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 1        | 6.78          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 1        | 6.78          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 1        | 6.78          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 8        | 6.78          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 20       | 6.78          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 20       | 6.78          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 2        | 6.78          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 4        | 6.78          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 8        | 6.78          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 8        | 6.78          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 8        | 6.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2 | 18       | 6.78          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3 | 18       | 6.78          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2 | 19       | 6.78          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3 | 19       | 6.78          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 16       | 6.78          |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3 | 20       | 6.78          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 16       | 6.78          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 11       | 6.78          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 11       | 6.78          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 11       | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2 | 7        | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 7        | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2 | 8        | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 8        | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2 | 20       | 6.78          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 20       | 6.78          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 6        | 6.78          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 6        | 6.78          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 14       | 6.78          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 14       | 6.78          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 13       | 6.78          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 13       | 6.78          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 20       | 6.78          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 12       | 6.78          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 12       | 6.78          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 20       | 6.78          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 20       | 6.78          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 2        | 6.78          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 5        | 6.78          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 10       | 6.78          |
| (1,2037) | 1:A:8:GLY:H    | 1:A:18:LEU:HB2 | 17       | 6.78          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 8        | 6.78          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 8        | 6.78          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 9        | 6.78          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 9        | 6.78          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 20       | 6.78          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 20       | 6.78          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 15       | 6.78          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2 | 14       | 6.78          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3 | 14       | 6.78          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 4        | 6.78          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 10       | 6.78          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB2  | 14       | 6.78          |
| (1,1565) | 1:A:6:GLN:HA   | 1:A:22:GLN:HB3  | 14       | 6.78          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 1        | 6.78          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 1        | 6.78          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 7        | 6.78          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 7        | 6.78          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 12       | 6.78          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 19       | 6.78          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 17       | 6.78          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 13       | 6.78          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 4        | 6.78          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 4        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 1        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 1        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 1        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 1        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 1        | 6.78          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 1        | 6.78          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 5        | 6.78          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 5        | 6.78          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 11       | 6.78          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2  | 8        | 6.78          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3  | 8        | 6.78          |
| (1,1031) | 1:A:3:PRO:HD3  | 1:A:26:CYS:H    | 7        | 6.78          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 11       | 6.77          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 1        | 6.77          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 1        | 6.77          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 1        | 6.77          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 1        | 6.77          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1  | 12       | 6.77          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1  | 12       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 10       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 10       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 10       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 10       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 10       | 6.77          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 10       | 6.77          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 14       | 6.77          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB1  | 13       | 6.77          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB2  | 13       | 6.77          |
| (1,4705) | 1:A:27:GLY:HA2 | 1:A:34:ALA:HB3  | 13       | 6.77          |
| (1,4625) | 1:A:26:CYS:H   | 1:A:33:CYS:HA   | 7        | 6.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG2 | 20       | 6.77          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG2 | 20       | 6.77          |
| (1,4593) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HG3 | 20       | 6.77          |
| (1,4593) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HG3 | 20       | 6.77          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 11       | 6.77          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 17       | 6.77          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 3        | 6.77          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 3        | 6.77          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 3        | 6.77          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 8        | 6.77          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 17       | 6.77          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 5        | 6.77          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 5        | 6.77          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 3        | 6.77          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 3        | 6.77          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 6        | 6.77          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 6        | 6.77          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 2        | 6.77          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 7        | 6.77          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 11       | 6.77          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 4        | 6.77          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 4        | 6.77          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 7        | 6.77          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 7        | 6.77          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 1        | 6.77          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 1        | 6.77          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 4        | 6.77          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 4        | 6.77          |
| (1,3851) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG2 | 14       | 6.77          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG2 | 16       | 6.77          |
| (1,3837) | 1:A:19:CYS:H    | 1:A:30:PRO:HG3 | 16       | 6.77          |
| (1,3711) | 1:A:18:LEU:HB3  | 1:A:24:GLY:H   | 14       | 6.77          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 2        | 6.77          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 2        | 6.77          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 13       | 6.77          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 13       | 6.77          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 3        | 6.77          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE1 | 16       | 6.77          |
| (1,3639) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HE2 | 16       | 6.77          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 17       | 6.77          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 17       | 6.77          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 3        | 6.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3 | 3        | 6.77          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3 | 8        | 6.77          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3 | 8        | 6.77          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H   | 6        | 6.77          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 6        | 6.77          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG  | 13       | 6.77          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 18       | 6.77          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H   | 19       | 6.77          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 2        | 6.77          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 2        | 6.77          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 2        | 6.77          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 4        | 6.77          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 5        | 6.77          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 10       | 6.77          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 12       | 6.77          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 12       | 6.77          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 8        | 6.77          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 8        | 6.77          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 9        | 6.77          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 9        | 6.77          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 3        | 6.77          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 4        | 6.77          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 6        | 6.77          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 15       | 6.77          |
| (1,1949) | 1:A:7:CYS:H    | 1:A:22:GLN:HG2 | 10       | 6.77          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 2        | 6.77          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 5        | 6.77          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 6        | 6.77          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3 | 10       | 6.77          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3 | 14       | 6.77          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 17       | 6.77          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 3        | 6.77          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 3        | 6.77          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 10       | 6.77          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 10       | 6.77          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H    | 9        | 6.77          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 17       | 6.77          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 7        | 6.77          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 7        | 6.77          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 16       | 6.77          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 16       | 6.77          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 18       | 6.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3 | 18       | 6.77          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA2 | 20       | 6.77          |
| (1,1096) | 1:A:4:ASN:H     | 1:A:27:GLY:HA3 | 20       | 6.77          |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB2 | 12       | 6.77          |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB3 | 12       | 6.77          |
| (1,869)  | 1:A:3:PRO:HB3   | 1:A:26:CYS:HB2 | 7        | 6.76          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2 | 7        | 6.76          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3 | 7        | 6.76          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG2  | 9        | 6.76          |
| (1,606)  | 1:A:2:GLY:H     | 1:A:9:PRO:HG3  | 9        | 6.76          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 3        | 6.76          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 3        | 6.76          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 17       | 6.76          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 17       | 6.76          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 17       | 6.76          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 17       | 6.76          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA  | 15       | 6.76          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 14       | 6.76          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 6        | 6.76          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 1        | 6.76          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 18       | 6.76          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 17       | 6.76          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 17       | 6.76          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 2        | 6.76          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 18       | 6.76          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 19       | 6.76          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 20       | 6.76          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 13       | 6.76          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 16       | 6.76          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 16       | 6.76          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 16       | 6.76          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 16       | 6.76          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 2        | 6.76          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 2        | 6.76          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 20       | 6.76          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 20       | 6.76          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 14       | 6.76          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 14       | 6.76          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 20       | 6.76          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 20       | 6.76          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 16       | 6.76          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 13       | 6.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 13       | 6.76          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 13       | 6.76          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 7        | 6.76          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 10       | 6.76          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 10       | 6.76          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 14       | 6.76          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 14       | 6.76          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 19       | 6.76          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 19       | 6.76          |
| (1,3425) | 1:A:15:ARG:HE   | 1:A:19:CYS:H   | 7        | 6.76          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 12       | 6.76          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 12       | 6.76          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 2        | 6.76          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 4        | 6.76          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB2 | 13       | 6.76          |
| (1,2746) | 1:A:11:TRP:HD1  | 1:A:23:TYR:HB3 | 13       | 6.76          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 3        | 6.76          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 6        | 6.76          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 1        | 6.76          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3 | 1        | 6.76          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 15       | 6.76          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3 | 15       | 6.76          |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H   | 8        | 6.76          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 10       | 6.76          |
| (1,2017) | 1:A:7:CYS:HB2   | 1:A:33:CYS:H   | 17       | 6.76          |
| (1,2017) | 1:A:7:CYS:HB3   | 1:A:33:CYS:H   | 17       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 7        | 6.76          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 7        | 6.76          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 12       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 12       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 18       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 18       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 19       | 6.76          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 19       | 6.76          |
| (1,1802) | 1:A:6:GLN:HE21  | 1:A:12:GLY:HA2 | 9        | 6.76          |
| (1,1802) | 1:A:6:GLN:HE21  | 1:A:12:GLY:HA3 | 9        | 6.76          |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H   | 6        | 6.76          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2 | 18       | 6.76          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3 | 18       | 6.76          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2 | 19       | 6.76          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3 | 19       | 6.76          |
| (1,1533) | 1:A:6:GLN:H     | 1:A:27:GLY:HA3 | 16       | 6.76          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1457) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE1  | 11       | 6.76          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB2  | 13       | 6.76          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB3  | 13       | 6.76          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2  | 2        | 6.76          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3  | 2        | 6.76          |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB2  | 2        | 6.76          |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB3  | 2        | 6.76          |
| (1,1319) | 1:A:4:ASN:HD22  | 1:A:7:CYS:H     | 4        | 6.76          |
| (1,1210) | 1:A:4:ASN:HB3   | 1:A:21:SER:H    | 3        | 6.76          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 17       | 6.76          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 17       | 6.76          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 17       | 6.76          |
| (1,1005) | 1:A:3:PRO:HD3   | 1:A:12:GLY:H    | 9        | 6.76          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3  | 8        | 6.75          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3  | 18       | 6.75          |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2  | 2        | 6.75          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2  | 11       | 6.75          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3  | 11       | 6.75          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1  | 10       | 6.75          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2  | 10       | 6.75          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3  | 10       | 6.75          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB1  | 15       | 6.75          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB2  | 15       | 6.75          |
| (1,4705) | 1:A:27:GLY:HA2  | 1:A:34:ALA:HB3  | 15       | 6.75          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 2        | 6.75          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 16       | 6.75          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 18       | 6.75          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 19       | 6.75          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 20       | 6.75          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 5        | 6.75          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 8        | 6.75          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2  | 1        | 6.75          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2  | 1        | 6.75          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3  | 1        | 6.75          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3  | 1        | 6.75          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2  | 17       | 6.75          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 9        | 6.75          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 6        | 6.75          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3  | 7        | 6.75          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA   | 4        | 6.75          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2  | 4        | 6.75          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 19       | 6.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 12       | 6.75          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 12       | 6.75          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 9        | 6.75          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 9        | 6.75          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 20       | 6.75          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 20       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 10       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 10       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 18       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 18       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 19       | 6.75          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 19       | 6.75          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 7        | 6.75          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 7        | 6.75          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 7        | 6.75          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 17       | 6.75          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 17       | 6.75          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 10       | 6.75          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 10       | 6.75          |
| (1,3824) | 1:A:19:CYS:H    | 1:A:23:TYR:HB2 | 7        | 6.75          |
| (1,3767) | 1:A:18:LEU:HD11 | 1:A:22:GLN:H   | 14       | 6.75          |
| (1,3767) | 1:A:18:LEU:HD12 | 1:A:22:GLN:H   | 14       | 6.75          |
| (1,3767) | 1:A:18:LEU:HD13 | 1:A:22:GLN:H   | 14       | 6.75          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 11       | 6.75          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 11       | 6.75          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 18       | 6.75          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 18       | 6.75          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 3        | 6.75          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 3        | 6.75          |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 15       | 6.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 1        | 6.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 1        | 6.75          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 5        | 6.75          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 1        | 6.75          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H   | 14       | 6.75          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 3        | 6.75          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H   | 18       | 6.75          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 11       | 6.75          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3 | 11       | 6.75          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 15       | 6.75          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 15       | 6.75          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 2        | 6.75          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 3        | 6.75          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 3        | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 1        | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 7        | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 8        | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 9        | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 12       | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 13       | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 18       | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 19       | 6.75          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 20       | 6.75          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 16       | 6.75          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 16       | 6.75          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 5        | 6.75          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3 | 3        | 6.75          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 15       | 6.75          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 15       | 6.75          |
| (1,1517) | 1:A:6:GLN:H    | 1:A:19:CYS:H   | 7        | 6.75          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1 | 1        | 6.75          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2 | 1        | 6.75          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3 | 1        | 6.75          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H    | 1        | 6.75          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 10       | 6.75          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 10       | 6.75          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 3        | 6.75          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2 | 8        | 6.75          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA2 | 19       | 6.75          |
| (1,1096) | 1:A:4:ASN:H    | 1:A:27:GLY:HA3 | 19       | 6.75          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 18       | 6.74          |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H   | 20       | 6.74          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1 | 6        | 6.74          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2 | 6        | 6.74          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1 | 6        | 6.74          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2 | 6        | 6.74          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1 | 14       | 6.74          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2 | 14       | 6.74          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1 | 14       | 6.74          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2 | 14       | 6.74          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2  | 6        | 6.74          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2  | 6        | 6.74          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3  | 6        | 6.74          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3  | 6        | 6.74          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 10       | 6.74          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2 | 9        | 6.74          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 12       | 6.74          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA  | 1        | 6.74          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA  | 4        | 6.74          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA  | 8        | 6.74          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA  | 17       | 6.74          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 1        | 6.74          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 20       | 6.74          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 14       | 6.74          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 14       | 6.74          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 14       | 6.74          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD2 | 20       | 6.74          |
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3 | 20       | 6.74          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 13       | 6.74          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 20       | 6.74          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 4        | 6.74          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 7        | 6.74          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 17       | 6.74          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 20       | 6.74          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 7        | 6.74          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 7        | 6.74          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 9        | 6.74          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 9        | 6.74          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 9        | 6.74          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 18       | 6.74          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 18       | 6.74          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 5        | 6.74          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 12       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 17       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 17       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 17       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 18       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 18       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 18       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 19       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 19       | 6.74          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 19       | 6.74          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 13       | 6.74          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG2 | 16       | 6.74          |
| (1,3671) | 1:A:18:LEU:HA   | 1:A:30:PRO:HG3 | 16       | 6.74          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2 | 2        | 6.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3587) | 1:A:17:GLY:H   | 1:A:35:HIS:HB3  | 2        | 6.74          |
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3  | 8        | 6.74          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2  | 17       | 6.74          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3  | 17       | 6.74          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 10       | 6.74          |
| (1,3474) | 1:A:16:GLY:H   | 1:A:27:GLY:H    | 3        | 6.74          |
| (1,3474) | 1:A:16:GLY:H   | 1:A:27:GLY:H    | 6        | 6.74          |
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2  | 8        | 6.74          |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2  | 8        | 6.74          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H    | 10       | 6.74          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H    | 7        | 6.74          |
| (1,3285) | 1:A:15:ARG:HA  | 1:A:28:SER:H    | 19       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 15       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 15       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 17       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 17       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 18       | 6.74          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 18       | 6.74          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG   | 1        | 6.74          |
| (1,3159) | 1:A:13:GLY:HA3 | 1:A:25:TYR:H    | 17       | 6.74          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 7        | 6.74          |
| (1,3095) | 1:A:13:GLY:H   | 1:A:19:CYS:H    | 17       | 6.74          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 15       | 6.74          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 15       | 6.74          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2  | 4        | 6.74          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3  | 4        | 6.74          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB2  | 14       | 6.74          |
| (1,2725) | 1:A:11:TRP:HD1 | 1:A:14:CYS:HB3  | 14       | 6.74          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2  | 17       | 6.74          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3  | 17       | 6.74          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 9        | 6.74          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 9        | 6.74          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 9        | 6.74          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 9        | 6.74          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 9        | 6.74          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 18       | 6.74          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 20       | 6.74          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 4        | 6.74          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 4        | 6.74          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 6        | 6.74          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 6        | 6.74          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG   | 11       | 6.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG   | 16       | 6.74          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 5        | 6.74          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 16       | 6.74          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 16       | 6.74          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 16       | 6.74          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 16       | 6.74          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 16       | 6.74          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 11       | 6.74          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 7        | 6.74          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 7        | 6.74          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 8        | 6.74          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 8        | 6.74          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 1        | 6.74          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 17       | 6.74          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 14       | 6.74          |
| (1,1330) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HE1  | 9        | 6.74          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 15       | 6.74          |
| (1,1319) | 1:A:4:ASN:HD22 | 1:A:7:CYS:H     | 20       | 6.74          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 12       | 6.74          |
| (1,1216) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HA   | 2        | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 1        | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 1        | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 1        | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 12       | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 12       | 6.74          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 12       | 6.74          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 3        | 6.73          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 3        | 6.73          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 13       | 6.73          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 13       | 6.73          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 13       | 6.73          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 13       | 6.73          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 19       | 6.73          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 19       | 6.73          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 19       | 6.73          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 17       | 6.73          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 17       | 6.73          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 17       | 6.73          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 5        | 6.73          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA   | 5        | 6.73          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA   | 11       | 6.73          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA   | 12       | 6.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 3        | 6.73          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 6        | 6.73          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 4        | 6.73          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 4        | 6.73          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 12       | 6.73          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 12       | 6.73          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 12       | 6.73          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 12       | 6.73          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 3        | 6.73          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 3        | 6.73          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 3        | 6.73          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 3        | 6.73          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 4        | 6.73          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 4        | 6.73          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 4        | 6.73          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 13       | 6.73          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 3        | 6.73          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 6        | 6.73          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 10       | 6.73          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 16       | 6.73          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 18       | 6.73          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 18       | 6.73          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 18       | 6.73          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD1 | 16       | 6.73          |
| (1,3897) | 1:A:19:CYS:HB3  | 1:A:25:TYR:HD2 | 16       | 6.73          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1 | 7        | 6.73          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2 | 7        | 6.73          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 16       | 6.73          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 16       | 6.73          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 15       | 6.73          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 4        | 6.73          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 4        | 6.73          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 4        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 7        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 7        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 7        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 9        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 9        | 6.73          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 9        | 6.73          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 4        | 6.73          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 11       | 6.73          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 11       | 6.73          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3640) | 1:A:17:GLY:HA3 | 1:A:33:CYS:H    | 15       | 6.73          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2  | 6        | 6.73          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3  | 6        | 6.73          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 14       | 6.73          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 14       | 6.73          |
| (1,3474) | 1:A:16:GLY:H   | 1:A:27:GLY:H    | 2        | 6.73          |
| (1,3474) | 1:A:16:GLY:H   | 1:A:27:GLY:H    | 4        | 6.73          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H    | 5        | 6.73          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1  | 10       | 6.73          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2  | 10       | 6.73          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 14       | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 8        | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 8        | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 9        | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 9        | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 20       | 6.73          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 20       | 6.73          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 9        | 6.73          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 4        | 6.73          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 7        | 6.73          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 19       | 6.73          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG   | 7        | 6.73          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 2        | 6.73          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 6        | 6.73          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 18       | 6.73          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 18       | 6.73          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 20       | 6.73          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 20       | 6.73          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 8        | 6.73          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 8        | 6.73          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 8        | 6.73          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 14       | 6.73          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 15       | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 1        | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 2        | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 5        | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 7        | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 8        | 6.73          |
| (1,1533) | 1:A:6:GLN:H    | 1:A:27:GLY:HA3  | 13       | 6.73          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 20       | 6.73          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 14       | 6.73          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 15       | 6.73          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3  | 9        | 6.73          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB2  | 11       | 6.73          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB3  | 11       | 6.73          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2  | 5        | 6.73          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3  | 5        | 6.73          |
| (1,1225) | 1:A:4:ASN:HB3   | 1:A:27:GLY:H    | 20       | 6.73          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD21 | 4        | 6.73          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD22 | 4        | 6.73          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD23 | 4        | 6.73          |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2  | 19       | 6.73          |
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H    | 16       | 6.72          |
| (1,809)  | 1:A:3:PRO:HB2   | 1:A:26:CYS:H    | 19       | 6.72          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG2  | 14       | 6.72          |
| (1,686)  | 1:A:2:GLY:HA2   | 1:A:15:ARG:HG3  | 14       | 6.72          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2   | 20       | 6.72          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2   | 20       | 6.72          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3   | 20       | 6.72          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3   | 20       | 6.72          |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 11       | 6.72          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3  | 15       | 6.72          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3  | 1        | 6.72          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2  | 1        | 6.72          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3  | 1        | 6.72          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H    | 7        | 6.72          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H    | 17       | 6.72          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 3        | 6.72          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2  | 2        | 6.72          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3  | 2        | 6.72          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 6        | 6.72          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 7        | 6.72          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 9        | 6.72          |
| (1,4649) | 1:A:26:CYS:HA   | 1:A:35:HIS:HB2  | 1        | 6.72          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 1        | 6.72          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 9        | 6.72          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 11       | 6.72          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA   | 2        | 6.72          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA   | 8        | 6.72          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 6        | 6.72          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 6        | 6.72          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 5        | 6.72          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 7        | 6.72          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 7        | 6.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 14       | 6.72          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 10       | 6.72          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 2        | 6.72          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 9        | 6.72          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 1        | 6.72          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 15       | 6.72          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 2        | 6.72          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 4        | 6.72          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 11       | 6.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 10       | 6.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 10       | 6.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 14       | 6.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 14       | 6.72          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 5        | 6.72          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 14       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 18       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 18       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 19       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 19       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 20       | 6.72          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 20       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 18       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 18       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 18       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 20       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 20       | 6.72          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 20       | 6.72          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 2        | 6.72          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 2        | 6.72          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 4        | 6.72          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 4        | 6.72          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 16       | 6.72          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 8        | 6.72          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 8        | 6.72          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 8        | 6.72          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 12       | 6.72          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 20       | 6.72          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 20       | 6.72          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 20       | 6.72          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 16       | 6.72          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 16       | 6.72          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 10       | 6.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 10       | 6.72          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 10       | 6.72          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 20       | 6.72          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 20       | 6.72          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 20       | 6.72          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 20       | 6.72          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 2        | 6.72          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 7        | 6.72          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 14       | 6.72          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 5        | 6.72          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 5        | 6.72          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 1        | 6.72          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 8        | 6.72          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 8        | 6.72          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 4        | 6.72          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 20       | 6.72          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 18       | 6.72          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 19       | 6.72          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD1 | 19       | 6.72          |
| (1,3184) | 1:A:14:CYS:H    | 1:A:25:TYR:HD2 | 19       | 6.72          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 11       | 6.72          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 1        | 6.72          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 11       | 6.72          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 13       | 6.72          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB2 | 13       | 6.72          |
| (1,2866) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HB3 | 13       | 6.72          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB2 | 13       | 6.72          |
| (1,2725) | 1:A:11:TRP:HD1  | 1:A:14:CYS:HB3 | 13       | 6.72          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 3        | 6.72          |
| (1,2465) | 1:A:10:GLY:H    | 1:A:20:CYS:HB2 | 5        | 6.72          |
| (1,2254) | 1:A:9:PRO:HB3   | 1:A:13:GLY:H   | 8        | 6.72          |
| (1,2254) | 1:A:9:PRO:HB3   | 1:A:13:GLY:H   | 16       | 6.72          |
| (1,2221) | 1:A:9:PRO:HB2   | 1:A:24:GLY:HA2 | 14       | 6.72          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 15       | 6.72          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 15       | 6.72          |
| (1,1941) | 1:A:7:CYS:H     | 1:A:19:CYS:HB3 | 3        | 6.72          |
| (1,1941) | 1:A:7:CYS:H     | 1:A:19:CYS:HB3 | 10       | 6.72          |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H   | 10       | 6.72          |
| (1,1757) | 1:A:6:GLN:HG3   | 1:A:20:CYS:HB2 | 11       | 6.72          |
| (1,1757) | 1:A:6:GLN:HG3   | 1:A:20:CYS:HB2 | 13       | 6.72          |
| (1,1704) | 1:A:6:GLN:HG2   | 1:A:12:GLY:HA3 | 1        | 6.72          |
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB2 | 20       | 6.72          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1638) | 1:A:6:GLN:HB3   | 1:A:18:LEU:HB3  | 20       | 6.72          |
| (1,1533) | 1:A:6:GLN:H     | 1:A:27:GLY:HA3  | 11       | 6.72          |
| (1,1533) | 1:A:6:GLN:H     | 1:A:27:GLY:HA3  | 15       | 6.72          |
| (1,1461) | 1:A:5:GLY:HA2   | 1:A:28:SER:H    | 4        | 6.72          |
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3  | 3        | 6.72          |
| (1,1363) | 1:A:4:ASN:HD22  | 1:A:26:CYS:H    | 10       | 6.72          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA2  | 5        | 6.72          |
| (1,1283) | 1:A:4:ASN:HD21  | 1:A:24:GLY:HA3  | 5        | 6.72          |
| (1,1210) | 1:A:4:ASN:HB3   | 1:A:21:SER:H    | 4        | 6.72          |
| (1,1190) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HD1  | 18       | 6.72          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 15       | 6.72          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 15       | 6.72          |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 15       | 6.72          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 8        | 6.71          |
| (1,898)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HD1  | 4        | 6.71          |
| (1,898)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HD1  | 4        | 6.71          |
| (1,642)  | 1:A:2:GLY:H     | 1:A:25:TYR:H    | 1        | 6.71          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1  | 15       | 6.71          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2  | 15       | 6.71          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1  | 15       | 6.71          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2  | 15       | 6.71          |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 17       | 6.71          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 6        | 6.71          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2  | 9        | 6.71          |
| (1,4663) | 1:A:26:CYS:HB2  | 1:A:33:CYS:HA   | 3        | 6.71          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2  | 11       | 6.71          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3  | 11       | 6.71          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 4        | 6.71          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA   | 5        | 6.71          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA   | 12       | 6.71          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA   | 13       | 6.71          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 9        | 6.71          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 2        | 6.71          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 2        | 6.71          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 17       | 6.71          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 17       | 6.71          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 20       | 6.71          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 20       | 6.71          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 6        | 6.71          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 6        | 6.71          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA   | 6        | 6.71          |
| (1,4251) | 1:A:22:GLN:HG3  | 1:A:26:CYS:H    | 16       | 6.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4241) | 1:A:22:GLN:HB3 | 1:A:34:ALA:H   | 7        | 6.71          |
| (1,4203) | 1:A:22:GLN:HB2 | 1:A:33:CYS:HA  | 1        | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2 | 7        | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3 | 7        | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2 | 19       | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3 | 19       | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2 | 20       | 6.71          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3 | 20       | 6.71          |
| (1,4117) | 1:A:22:GLN:H   | 1:A:29:GLY:HA3 | 11       | 6.71          |
| (1,4114) | 1:A:22:GLN:H   | 1:A:28:SER:HA  | 1        | 6.71          |
| (1,4114) | 1:A:22:GLN:H   | 1:A:28:SER:HA  | 7        | 6.71          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2 | 14       | 6.71          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 3        | 6.71          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 3        | 6.71          |
| (1,4037) | 1:A:21:SER:H   | 1:A:31:LYS:HD2 | 19       | 6.71          |
| (1,4037) | 1:A:21:SER:H   | 1:A:31:LYS:HD3 | 19       | 6.71          |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3 | 9        | 6.71          |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3 | 12       | 6.71          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE1 | 11       | 6.71          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE2 | 11       | 6.71          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE1 | 15       | 6.71          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE2 | 15       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1 | 11       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2 | 11       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3 | 11       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1 | 19       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2 | 19       | 6.71          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3 | 19       | 6.71          |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD1 | 16       | 6.71          |
| (1,3919) | 1:A:20:CYS:H   | 1:A:23:TYR:HD2 | 16       | 6.71          |
| (1,3904) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HG3 | 2        | 6.71          |
| (1,3755) | 1:A:18:LEU:HG  | 1:A:33:CYS:H   | 11       | 6.71          |
| (1,3755) | 1:A:18:LEU:HG  | 1:A:33:CYS:H   | 16       | 6.71          |
| (1,3740) | 1:A:18:LEU:HG  | 1:A:25:TYR:HB3 | 6        | 6.71          |
| (1,3740) | 1:A:18:LEU:HG  | 1:A:25:TYR:HB3 | 9        | 6.71          |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD1 | 1        | 6.71          |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD2 | 1        | 6.71          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA2 | 4        | 6.71          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA3 | 4        | 6.71          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA2 | 6        | 6.71          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA3 | 6        | 6.71          |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 6        | 6.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3 | 1        | 6.71          |
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3 | 9        | 6.71          |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3 | 15       | 6.71          |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 15       | 6.71          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 17       | 6.71          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1 | 2        | 6.71          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2 | 2        | 6.71          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA2 | 3        | 6.71          |
| (1,2975) | 1:A:11:TRP:HH2 | 1:A:24:GLY:HA3 | 3        | 6.71          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 2        | 6.71          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 3        | 6.71          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 6        | 6.71          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 10       | 6.71          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 17       | 6.71          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 13       | 6.71          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 14       | 6.71          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 9        | 6.71          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 16       | 6.71          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 18       | 6.71          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 19       | 6.71          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 4        | 6.71          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 14       | 6.71          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 14       | 6.71          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 14       | 6.71          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 4        | 6.71          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 15       | 6.71          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 15       | 6.71          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2  | 19       | 6.71          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3  | 19       | 6.71          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 1        | 6.71          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 15       | 6.71          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2 | 9        | 6.71          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3 | 9        | 6.71          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1 | 12       | 6.71          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2 | 4        | 6.71          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3 | 4        | 6.71          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2 | 15       | 6.71          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3 | 15       | 6.71          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 17       | 6.71          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 17       | 6.71          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H   | 6        | 6.71          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 14       | 6.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 3        | 6.71          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 3        | 6.71          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 3        | 6.71          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 9        | 6.71          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 9        | 6.71          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 16       | 6.71          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 16       | 6.71          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 13       | 6.7           |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 15       | 6.7           |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 13       | 6.7           |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 13       | 6.7           |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 20       | 6.7           |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 20       | 6.7           |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 18       | 6.7           |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 18       | 6.7           |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 18       | 6.7           |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3   | 18       | 6.7           |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 6        | 6.7           |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 6        | 6.7           |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 6        | 6.7           |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 6        | 6.7           |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 16       | 6.7           |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2  | 11       | 6.7           |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3  | 11       | 6.7           |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H    | 3        | 6.7           |
| (1,4646) | 1:A:26:CYS:HA  | 1:A:34:ALA:H    | 5        | 6.7           |
| (1,4596) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HA   | 2        | 6.7           |
| (1,4596) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HA   | 2        | 6.7           |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 17       | 6.7           |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H    | 10       | 6.7           |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H    | 10       | 6.7           |
| (1,4254) | 1:A:22:GLN:HG3 | 1:A:27:GLY:H    | 14       | 6.7           |
| (1,4254) | 1:A:22:GLN:HG3 | 1:A:27:GLY:H    | 16       | 6.7           |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H    | 3        | 6.7           |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H    | 15       | 6.7           |
| (1,4202) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HA   | 10       | 6.7           |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE1  | 20       | 6.7           |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE2  | 20       | 6.7           |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2  | 9        | 6.7           |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3  | 9        | 6.7           |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2  | 16       | 6.7           |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3  | 16       | 6.7           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2 | 18       | 6.7           |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3 | 18       | 6.7           |
| (1,4117) | 1:A:22:GLN:H   | 1:A:29:GLY:HA3 | 1        | 6.7           |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3 | 4        | 6.7           |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3 | 13       | 6.7           |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1 | 1        | 6.7           |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2 | 1        | 6.7           |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3 | 1        | 6.7           |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2 | 9        | 6.7           |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3 | 9        | 6.7           |
| (1,3904) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HG3 | 4        | 6.7           |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2 | 17       | 6.7           |
| (1,3755) | 1:A:18:LEU:HG  | 1:A:33:CYS:H   | 8        | 6.7           |
| (1,3755) | 1:A:18:LEU:HG  | 1:A:33:CYS:H   | 19       | 6.7           |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD1 | 5        | 6.7           |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD2 | 5        | 6.7           |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD1 | 16       | 6.7           |
| (1,3687) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HD2 | 16       | 6.7           |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA2 | 13       | 6.7           |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA3 | 13       | 6.7           |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 5        | 6.7           |
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3 | 20       | 6.7           |
| (1,3397) | 1:A:15:ARG:HD2 | 1:A:20:CYS:H   | 13       | 6.7           |
| (1,3397) | 1:A:15:ARG:HD3 | 1:A:20:CYS:H   | 13       | 6.7           |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 5        | 6.7           |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1 | 17       | 6.7           |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2 | 17       | 6.7           |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 5        | 6.7           |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 15       | 6.7           |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 11       | 6.7           |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 11       | 6.7           |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2 | 13       | 6.7           |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3 | 13       | 6.7           |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG  | 3        | 6.7           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 10       | 6.7           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 10       | 6.7           |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 10       | 6.7           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 10       | 6.7           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 10       | 6.7           |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 10       | 6.7           |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 2        | 6.7           |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 2        | 6.7           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 7        | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 7        | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 8        | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 8        | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 12       | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 12       | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 16       | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 16       | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 18       | 6.7           |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 18       | 6.7           |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 2        | 6.7           |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 13       | 6.7           |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 13       | 6.7           |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 1        | 6.7           |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 11       | 6.7           |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 17       | 6.7           |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 16       | 6.7           |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 4        | 6.7           |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 1        | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 15       | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 15       | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 15       | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 15       | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 15       | 6.7           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 15       | 6.7           |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 2        | 6.7           |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 2        | 6.7           |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 15       | 6.7           |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 3        | 6.7           |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 19       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 7        | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 7        | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 8        | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 8        | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 18       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 18       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 19       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 19       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 20       | 6.7           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 20       | 6.7           |
| (1,809)  | 1:A:3:PRO:HB2  | 1:A:26:CYS:H    | 7        | 6.69          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 18       | 6.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3 | 18       | 6.69          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2 | 20       | 6.69          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3 | 20       | 6.69          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2  | 7        | 6.69          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2  | 7        | 6.69          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 7        | 6.69          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 7        | 6.69          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 11       | 6.69          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 11       | 6.69          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 11       | 6.69          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 11       | 6.69          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 6        | 6.69          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 5        | 6.69          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 12       | 6.69          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 12       | 6.69          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 5        | 6.69          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 6        | 6.69          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 13       | 6.69          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 13       | 6.69          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 3        | 6.69          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 6        | 6.69          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 3        | 6.69          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 6        | 6.69          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 4        | 6.69          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 15       | 6.69          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 2        | 6.69          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD2 | 17       | 6.69          |
| (1,4261) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HD3 | 17       | 6.69          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 12       | 6.69          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 8        | 6.69          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 8        | 6.69          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 9        | 6.69          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 1        | 6.69          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 1        | 6.69          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA  | 3        | 6.69          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 16       | 6.69          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 16       | 6.69          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 1        | 6.69          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 2        | 6.69          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 8        | 6.69          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 11       | 6.69          |
| (1,4029) | 1:A:21:SER:H    | 1:A:29:GLY:HA3 | 15       | 6.69          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1  | 6        | 6.69          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2  | 6        | 6.69          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 3        | 6.69          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1  | 15       | 6.69          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2  | 15       | 6.69          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 7        | 6.69          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 7        | 6.69          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1  | 3        | 6.69          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2  | 3        | 6.69          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 3        | 6.69          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 3        | 6.69          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 3        | 6.69          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1  | 16       | 6.69          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2  | 16       | 6.69          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H    | 4        | 6.69          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H    | 4        | 6.69          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H    | 4        | 6.69          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H    | 18       | 6.69          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3  | 11       | 6.69          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3  | 15       | 6.69          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 1        | 6.69          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 3        | 6.69          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 18       | 6.69          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 18       | 6.69          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 3        | 6.69          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 3        | 6.69          |
| (1,3511) | 1:A:16:GLY:HA2  | 1:A:28:SER:H    | 17       | 6.69          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2  | 11       | 6.69          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3  | 11       | 6.69          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2  | 9        | 6.69          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3  | 9        | 6.69          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H    | 10       | 6.69          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H    | 10       | 6.69          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2  | 2        | 6.69          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H    | 18       | 6.69          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H    | 19       | 6.69          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD1  | 14       | 6.69          |
| (1,3269) | 1:A:15:ARG:H    | 1:A:25:TYR:HD2  | 14       | 6.69          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1  | 4        | 6.69          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2  | 4        | 6.69          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1  | 5        | 6.69          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2  | 5        | 6.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1  | 7        | 6.69          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2  | 7        | 6.69          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG   | 11       | 6.69          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 1        | 6.69          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 3        | 6.69          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 4        | 6.69          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB2  | 1        | 6.69          |
| (1,2580) | 1:A:11:TRP:H   | 1:A:14:CYS:HB3  | 1        | 6.69          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 6        | 6.69          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG   | 20       | 6.69          |
| (1,2052) | 1:A:8:GLY:H    | 1:A:23:TYR:H    | 17       | 6.69          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG   | 10       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 18       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 18       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 18       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 19       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 19       | 6.69          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 19       | 6.69          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 20       | 6.69          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 20       | 6.69          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 11       | 6.69          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 11       | 6.69          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 4        | 6.69          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 14       | 6.69          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 13       | 6.69          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 13       | 6.69          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD1  | 2        | 6.69          |
| (1,1541) | 1:A:6:GLN:H    | 1:A:32:TYR:HD2  | 2        | 6.69          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 12       | 6.69          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 9        | 6.69          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 7        | 6.69          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 8        | 6.69          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 19       | 6.69          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 12       | 6.69          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 6        | 6.69          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 6        | 6.69          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 1        | 6.69          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 8        | 6.68          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 2        | 6.68          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2  | 12       | 6.68          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H    | 13       | 6.68          |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H    | 5        | 6.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 6        | 6.68          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 16       | 6.68          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 17       | 6.68          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 7        | 6.68          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 17       | 6.68          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 3        | 6.68          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 17       | 6.68          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 7        | 6.68          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 7        | 6.68          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 12       | 6.68          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 18       | 6.68          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 18       | 6.68          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 3        | 6.68          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 6        | 6.68          |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H   | 14       | 6.68          |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H   | 14       | 6.68          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 18       | 6.68          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 18       | 6.68          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 8        | 6.68          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA  | 1        | 6.68          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 2        | 6.68          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 2        | 6.68          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 18       | 6.68          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 14       | 6.68          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 12       | 6.68          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 12       | 6.68          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 13       | 6.68          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 13       | 6.68          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 14       | 6.68          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 1        | 6.68          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 1        | 6.68          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 17       | 6.68          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 17       | 6.68          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 17       | 6.68          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 17       | 6.68          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 17       | 6.68          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 3        | 6.68          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 6        | 6.68          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 6        | 6.68          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 12       | 6.68          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 12       | 6.68          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 14       | 6.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 14       | 6.68          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 14       | 6.68          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 11       | 6.68          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 11       | 6.68          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 11       | 6.68          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 3        | 6.68          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 3        | 6.68          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 3        | 6.68          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 20       | 6.68          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 19       | 6.68          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 19       | 6.68          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 1        | 6.68          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 1        | 6.68          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 11       | 6.68          |
| (1,3379) | 1:A:15:ARG:HG2  | 1:A:28:SER:H   | 15       | 6.68          |
| (1,3379) | 1:A:15:ARG:HG3  | 1:A:28:SER:H   | 15       | 6.68          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 15       | 6.68          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 7        | 6.68          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 15       | 6.68          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 14       | 6.68          |
| (1,2997) | 1:A:12:GLY:H    | 1:A:20:CYS:H   | 17       | 6.68          |
| (1,2640) | 1:A:11:TRP:HB2  | 1:A:15:ARG:HE  | 20       | 6.68          |
| (1,2254) | 1:A:9:PRO:HB3   | 1:A:13:GLY:H   | 12       | 6.68          |
| (1,2254) | 1:A:9:PRO:HB3   | 1:A:13:GLY:H   | 14       | 6.68          |
| (1,2112) | 1:A:8:GLY:HA3   | 1:A:21:SER:HG  | 9        | 6.68          |
| (1,2045) | 1:A:8:GLY:H     | 1:A:21:SER:HG  | 2        | 6.68          |
| (1,2045) | 1:A:8:GLY:H     | 1:A:21:SER:HG  | 6        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 3        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 3        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 4        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 4        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 5        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 5        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 6        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 6        | 6.68          |
| (1,2007) | 1:A:7:CYS:HB2   | 1:A:28:SER:H   | 10       | 6.68          |
| (1,2007) | 1:A:7:CYS:HB3   | 1:A:28:SER:H   | 10       | 6.68          |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG2 | 8        | 6.68          |
| (1,1931) | 1:A:7:CYS:H     | 1:A:15:ARG:HG3 | 8        | 6.68          |
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3 | 13       | 6.68          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB2 | 4        | 6.68          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB3 | 4        | 6.68          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1472) | 1:A:5:GLY:HA3   | 1:A:12:GLY:H    | 9        | 6.68          |
| (1,1461) | 1:A:5:GLY:HA2   | 1:A:28:SER:H    | 3        | 6.68          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H    | 17       | 6.68          |
| (1,1457) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE1  | 18       | 6.68          |
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3  | 20       | 6.68          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB2  | 3        | 6.68          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB3  | 3        | 6.68          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD11 | 11       | 6.68          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD12 | 11       | 6.68          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD13 | 11       | 6.68          |
| (1,1220) | 1:A:4:ASN:HB3   | 1:A:24:GLY:H    | 3        | 6.68          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2  | 5        | 6.68          |
| (1,1190) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HD1  | 8        | 6.68          |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2  | 18       | 6.68          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 4        | 6.67          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 15       | 6.67          |
| (1,933)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HB2  | 17       | 6.67          |
| (1,933)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HB2  | 17       | 6.67          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2  | 4        | 6.67          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 13       | 6.67          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 13       | 6.67          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 2        | 6.67          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 2        | 6.67          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1  | 20       | 6.67          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2  | 20       | 6.67          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3  | 20       | 6.67          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 12       | 6.67          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 12       | 6.67          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 15       | 6.67          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 15       | 6.67          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H    | 5        | 6.67          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 13       | 6.67          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 2        | 6.67          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 13       | 6.67          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE2  | 18       | 6.67          |
| (1,4475) | 1:A:24:GLY:HA2  | 1:A:31:LYS:HE3  | 18       | 6.67          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 13       | 6.67          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 14       | 6.67          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 14       | 6.67          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 17       | 6.67          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 20       | 6.67          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1  | 3        | 6.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2  | 15       | 6.67          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3  | 15       | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 7        | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 8        | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 9        | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 11       | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 16       | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 18       | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 19       | 6.67          |
| (1,4111) | 1:A:22:GLN:H   | 1:A:26:CYS:HB2  | 20       | 6.67          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 6        | 6.67          |
| (1,4029) | 1:A:21:SER:H   | 1:A:29:GLY:HA3  | 17       | 6.67          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE1  | 3        | 6.67          |
| (1,3993) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HE2  | 3        | 6.67          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 6        | 6.67          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 6        | 6.67          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE21 | 14       | 6.67          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE22 | 14       | 6.67          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1  | 3        | 6.67          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2  | 3        | 6.67          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1  | 6        | 6.67          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2  | 6        | 6.67          |
| (1,3740) | 1:A:18:LEU:HG  | 1:A:25:TYR:HB3  | 17       | 6.67          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA2  | 15       | 6.67          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA3  | 15       | 6.67          |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3  | 1        | 6.67          |
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3  | 18       | 6.67          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 3        | 6.67          |
| (1,3345) | 1:A:15:ARG:HB3 | 1:A:28:SER:HB2  | 3        | 6.67          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H    | 14       | 6.67          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H    | 17       | 6.67          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1  | 2        | 6.67          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2  | 2        | 6.67          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 15       | 6.67          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 2        | 6.67          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 4        | 6.67          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 17       | 6.67          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 17       | 6.67          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 3        | 6.67          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2  | 8        | 6.67          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3  | 8        | 6.67          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 7        | 6.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 9        | 6.67          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 18       | 6.67          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 19       | 6.67          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 20       | 6.67          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 15       | 6.67          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG   | 8        | 6.67          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 4        | 6.67          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 4        | 6.67          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H    | 1        | 6.67          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H    | 1        | 6.67          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H    | 11       | 6.67          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H    | 11       | 6.67          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 14       | 6.67          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 14       | 6.67          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 9        | 6.67          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 9        | 6.67          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 9        | 6.67          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 1        | 6.67          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 1        | 6.67          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 13       | 6.67          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 13       | 6.67          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 17       | 6.67          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 15       | 6.67          |
| (1,1457) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE1  | 20       | 6.67          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 6        | 6.67          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 18       | 6.67          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 2        | 6.67          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 5        | 6.67          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 7        | 6.67          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 11       | 6.67          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 11       | 6.67          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 11       | 6.67          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 14       | 6.66          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 14       | 6.66          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 3        | 6.66          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 3        | 6.66          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 1        | 6.66          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 2        | 6.66          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 2        | 6.66          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 17       | 6.66          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 17       | 6.66          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2  | 11       | 6.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 15       | 6.66          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 7        | 6.66          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 7        | 6.66          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 9        | 6.66          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 9        | 6.66          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 9        | 6.66          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 10       | 6.66          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 18       | 6.66          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 19       | 6.66          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 20       | 6.66          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 8        | 6.66          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 8        | 6.66          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 8        | 6.66          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 16       | 6.66          |
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 20       | 6.66          |
| (1,4436) | 1:A:23:TYR:HE1  | 1:A:33:CYS:H   | 14       | 6.66          |
| (1,4436) | 1:A:23:TYR:HE2  | 1:A:33:CYS:H   | 14       | 6.66          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 14       | 6.66          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 8        | 6.66          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 8        | 6.66          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 10       | 6.66          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 18       | 6.66          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 14       | 6.66          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 14       | 6.66          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 3        | 6.66          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 5        | 6.66          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 17       | 6.66          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 1        | 6.66          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 1        | 6.66          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 9        | 6.66          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 15       | 6.66          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 1        | 6.66          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 12       | 6.66          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 13       | 6.66          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 15       | 6.66          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 11       | 6.66          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 11       | 6.66          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 4        | 6.66          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 4        | 6.66          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 10       | 6.66          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 13       | 6.66          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 13       | 6.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 7        | 6.66          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 1        | 6.66          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 1        | 6.66          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 18       | 6.66          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 8        | 6.66          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 8        | 6.66          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 4        | 6.66          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 4        | 6.66          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3 | 20       | 6.66          |
| (1,3818) | 1:A:18:LEU:HD21 | 1:A:35:HIS:H   | 10       | 6.66          |
| (1,3818) | 1:A:18:LEU:HD22 | 1:A:35:HIS:H   | 10       | 6.66          |
| (1,3818) | 1:A:18:LEU:HD23 | 1:A:35:HIS:H   | 10       | 6.66          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 16       | 6.66          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 16       | 6.66          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 16       | 6.66          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 10       | 6.66          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 13       | 6.66          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3 | 19       | 6.66          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 8        | 6.66          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 15       | 6.66          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 15       | 6.66          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 18       | 6.66          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 19       | 6.66          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H   | 3        | 6.66          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 6        | 6.66          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2 | 6        | 6.66          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3 | 6        | 6.66          |
| (1,3015) | 1:A:12:GLY:H    | 1:A:26:CYS:HA  | 17       | 6.66          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB2 | 16       | 6.66          |
| (1,2683) | 1:A:11:TRP:HB3  | 1:A:18:LEU:HB3 | 16       | 6.66          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB2 | 14       | 6.66          |
| (1,2580) | 1:A:11:TRP:H    | 1:A:14:CYS:HB3 | 14       | 6.66          |
| (1,2304) | 1:A:9:PRO:HG2   | 1:A:13:GLY:HA2 | 16       | 6.66          |
| (1,2112) | 1:A:8:GLY:HA3   | 1:A:21:SER:HG  | 12       | 6.66          |
| (1,2112) | 1:A:8:GLY:HA3   | 1:A:21:SER:HG  | 15       | 6.66          |
| (1,2091) | 1:A:8:GLY:HA2   | 1:A:26:CYS:HB2 | 2        | 6.66          |
| (1,2045) | 1:A:8:GLY:H     | 1:A:21:SER:HG  | 5        | 6.66          |
| (1,1864) | 1:A:6:GLN:HE22  | 1:A:8:GLY:HA2  | 11       | 6.66          |
| (1,1864) | 1:A:6:GLN:HE22  | 1:A:8:GLY:HA3  | 11       | 6.66          |
| (1,1863) | 1:A:6:GLN:HE22  | 1:A:8:GLY:H    | 17       | 6.66          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG2 | 10       | 6.66          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG3 | 10       | 6.66          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H   | 10       | 6.66          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H   | 8        | 6.66          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H   | 1        | 6.66          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H   | 12       | 6.66          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 15       | 6.66          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 6        | 6.66          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 20       | 6.66          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1 | 12       | 6.66          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2 | 4        | 6.66          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3 | 4        | 6.66          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3 | 3        | 6.65          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H   | 20       | 6.65          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 14       | 6.65          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 14       | 6.65          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 13       | 6.65          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 13       | 6.65          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 9        | 6.65          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 9        | 6.65          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 8        | 6.65          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 9        | 6.65          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 9        | 6.65          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 9        | 6.65          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 17       | 6.65          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 17       | 6.65          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 14       | 6.65          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2 | 13       | 6.65          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1 | 11       | 6.65          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2 | 11       | 6.65          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3 | 11       | 6.65          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2 | 19       | 6.65          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H   | 10       | 6.65          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H   | 11       | 6.65          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1 | 13       | 6.65          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2 | 13       | 6.65          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3 | 13       | 6.65          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2 | 8        | 6.65          |
| (1,4523) | 1:A:25:TYR:H   | 1:A:33:CYS:HA  | 5        | 6.65          |
| (1,4523) | 1:A:25:TYR:H   | 1:A:33:CYS:HA  | 15       | 6.65          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1 | 4        | 6.65          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB2 | 4        | 6.65          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB3 | 4        | 6.65          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA  | 18       | 6.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4457) | 1:A:24:GLY:H    | 1:A:33:CYS:HA  | 19       | 6.65          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 4        | 6.65          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 5        | 6.65          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 6        | 6.65          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 2        | 6.65          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 3        | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 11       | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 11       | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 13       | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 13       | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 14       | 6.65          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 14       | 6.65          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 14       | 6.65          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA  | 8        | 6.65          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 11       | 6.65          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 11       | 6.65          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 1        | 6.65          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 1        | 6.65          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 5        | 6.65          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 6        | 6.65          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 6        | 6.65          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 11       | 6.65          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 11       | 6.65          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 14       | 6.65          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 5        | 6.65          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 13       | 6.65          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 2        | 6.65          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 2        | 6.65          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3 | 1        | 6.65          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 3        | 6.65          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 3        | 6.65          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 3        | 6.65          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 12       | 6.65          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 16       | 6.65          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 19       | 6.65          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 20       | 6.65          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 20       | 6.65          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 5        | 6.65          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 5        | 6.65          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 10       | 6.65          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 10       | 6.65          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 10       | 6.65          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 2        | 6.65          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 4        | 6.65          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2  | 20       | 6.65          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3  | 20       | 6.65          |
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3  | 7        | 6.65          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3  | 7        | 6.65          |
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H    | 12       | 6.65          |
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H    | 20       | 6.65          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2  | 7        | 6.65          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H    | 10       | 6.65          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1  | 6        | 6.65          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2  | 6        | 6.65          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 4        | 6.65          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 14       | 6.65          |
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H    | 1        | 6.65          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 14       | 6.65          |
| (1,2596) | 1:A:11:TRP:H   | 1:A:26:CYS:H    | 17       | 6.65          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 2        | 6.65          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 2        | 6.65          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 2        | 6.65          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 2        | 6.65          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 8        | 6.65          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 5        | 6.65          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 6        | 6.65          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 3        | 6.65          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 3        | 6.65          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 18       | 6.65          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 18       | 6.65          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 12       | 6.65          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 12       | 6.65          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 7        | 6.65          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 7        | 6.65          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 7        | 6.65          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 1        | 6.65          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 1        | 6.65          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 15       | 6.65          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 15       | 6.65          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 3        | 6.65          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 5        | 6.65          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 5        | 6.65          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 17       | 6.65          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 17       | 6.65          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB2  | 3        | 6.65          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB3  | 3        | 6.65          |
| (1,1457) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE1  | 9        | 6.65          |
| (1,1457) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE1  | 13       | 6.65          |
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3  | 11       | 6.65          |
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3  | 19       | 6.65          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB2  | 2        | 6.65          |
| (1,1424) | 1:A:5:GLY:H     | 1:A:20:CYS:HB3  | 2        | 6.65          |
| (1,1419) | 1:A:5:GLY:H     | 1:A:18:LEU:HG   | 1        | 6.65          |
| (1,1419) | 1:A:5:GLY:H     | 1:A:18:LEU:HG   | 12       | 6.65          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD11 | 14       | 6.65          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD12 | 14       | 6.65          |
| (1,1272) | 1:A:4:ASN:HD21  | 1:A:18:LEU:HD13 | 14       | 6.65          |
| (1,1226) | 1:A:4:ASN:HB3   | 1:A:27:GLY:HA2  | 2        | 6.65          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD1  | 14       | 6.65          |
| (1,1155) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HD2  | 14       | 6.65          |
| (1,1089) | 1:A:4:ASN:H     | 1:A:25:TYR:H    | 11       | 6.65          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 1        | 6.64          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 14       | 6.64          |
| (1,898)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HD1  | 1        | 6.64          |
| (1,898)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HD1  | 1        | 6.64          |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3  | 3        | 6.64          |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3  | 3        | 6.64          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2   | 13       | 6.64          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2   | 13       | 6.64          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3   | 13       | 6.64          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3   | 13       | 6.64          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 14       | 6.64          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 14       | 6.64          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB2  | 12       | 6.64          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB3  | 12       | 6.64          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 1        | 6.64          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H    | 7        | 6.64          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3  | 19       | 6.64          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2  | 5        | 6.64          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3  | 5        | 6.64          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1  | 8        | 6.64          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2  | 8        | 6.64          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3  | 8        | 6.64          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 8        | 6.64          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 14       | 6.64          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 9        | 6.64          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 9        | 6.64          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 1        | 6.64          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA   | 14       | 6.64          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 10       | 6.64          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3  | 15       | 6.64          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2  | 10       | 6.64          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3  | 10       | 6.64          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 16       | 6.64          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 16       | 6.64          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 12       | 6.64          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 14       | 6.64          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 1        | 6.64          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 1        | 6.64          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 1        | 6.64          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H    | 2        | 6.64          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3  | 18       | 6.64          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 4        | 6.64          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 3        | 6.64          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 3        | 6.64          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 17       | 6.64          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 17       | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 2        | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 2        | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 16       | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 16       | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 17       | 6.64          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 17       | 6.64          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3  | 17       | 6.64          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H    | 20       | 6.64          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3  | 7        | 6.64          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3  | 11       | 6.64          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2  | 13       | 6.64          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3  | 13       | 6.64          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 14       | 6.64          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 14       | 6.64          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 7        | 6.64          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 7        | 6.64          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3  | 19       | 6.64          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3  | 19       | 6.64          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 18       | 6.64          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3  | 16       | 6.64          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H    | 1        | 6.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG  | 17       | 6.64          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3 | 5        | 6.64          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 2        | 6.64          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2 | 8        | 6.64          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3 | 8        | 6.64          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB2 | 16       | 6.64          |
| (1,2986) | 1:A:12:GLY:H   | 1:A:15:ARG:HB3 | 16       | 6.64          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2 | 14       | 6.64          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3 | 14       | 6.64          |
| (1,2749) | 1:A:11:TRP:HD1 | 1:A:25:TYR:HB3 | 17       | 6.64          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 18       | 6.64          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 18       | 6.64          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 19       | 6.64          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 19       | 6.64          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 11       | 6.64          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 10       | 6.64          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 13       | 6.64          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 4        | 6.64          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1 | 6        | 6.64          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2 | 6        | 6.64          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 12       | 6.64          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 12       | 6.64          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 9        | 6.64          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 9        | 6.64          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 19       | 6.64          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 19       | 6.64          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE1 | 17       | 6.64          |
| (1,2003) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HE2 | 17       | 6.64          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE1 | 17       | 6.64          |
| (1,2003) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HE2 | 17       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 18       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 18       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 19       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 19       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 20       | 6.64          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 20       | 6.64          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB2 | 13       | 6.64          |
| (1,1930) | 1:A:7:CYS:H    | 1:A:15:ARG:HB3 | 13       | 6.64          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2  | 17       | 6.64          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3  | 17       | 6.64          |
| (1,1798) | 1:A:6:GLN:HE21 | 1:A:10:GLY:H   | 17       | 6.64          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 3        | 6.64          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 3        | 6.64          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 13       | 6.64          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 5        | 6.64          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 5        | 6.64          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 13       | 6.64          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 20       | 6.64          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 16       | 6.64          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 6        | 6.64          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 6        | 6.64          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 10       | 6.64          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 10       | 6.64          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 13       | 6.64          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 13       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 11       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 11       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 11       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 11       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 11       | 6.64          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 11       | 6.64          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 19       | 6.64          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 19       | 6.64          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 11       | 6.64          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 1        | 6.64          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 13       | 6.63          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 12       | 6.63          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 12       | 6.63          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 4        | 6.63          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 4        | 6.63          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 6        | 6.63          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 9        | 6.63          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 7        | 6.63          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 11       | 6.63          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 15       | 6.63          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 15       | 6.63          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 15       | 6.63          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG2  | 2        | 6.63          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG2  | 2        | 6.63          |
| (1,4593) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HG3  | 2        | 6.63          |
| (1,4593) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HG3  | 2        | 6.63          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 7        | 6.63          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 9        | 6.63          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 11       | 6.63          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 12       | 6.63          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 12       | 6.63          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 12       | 6.63          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 12       | 6.63          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 12       | 6.63          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 12       | 6.63          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2  | 1        | 6.63          |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3  | 1        | 6.63          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2  | 1        | 6.63          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3  | 1        | 6.63          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA   | 8        | 6.63          |
| (1,4267) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HB3  | 1        | 6.63          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 9        | 6.63          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 4        | 6.63          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H    | 2        | 6.63          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 7        | 6.63          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H    | 17       | 6.63          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 10       | 6.63          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 6        | 6.63          |
| (1,4114) | 1:A:22:GLN:H    | 1:A:28:SER:HA   | 12       | 6.63          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 7        | 6.63          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 7        | 6.63          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 14       | 6.63          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1  | 16       | 6.63          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 5        | 6.63          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1  | 17       | 6.63          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2  | 17       | 6.63          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 20       | 6.63          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 20       | 6.63          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 17       | 6.63          |
| (1,3822) | 1:A:19:CYS:H    | 1:A:22:GLN:HG3  | 20       | 6.63          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 14       | 6.63          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 14       | 6.63          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 14       | 6.63          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 4        | 6.63          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 4        | 6.63          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 15       | 6.63          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 15       | 6.63          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 18       | 6.63          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 18       | 6.63          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3  | 13       | 6.63          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 7        | 6.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG2  | 16       | 6.63          |
| (1,3612) | 1:A:17:GLY:HA2 | 1:A:30:PRO:HG3  | 16       | 6.63          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD1  | 20       | 6.63          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD2  | 20       | 6.63          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 5        | 6.63          |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA   | 18       | 6.63          |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA   | 19       | 6.63          |
| (1,3388) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HB3  | 20       | 6.63          |
| (1,3388) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HB3  | 20       | 6.63          |
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H    | 19       | 6.63          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H    | 20       | 6.63          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 1        | 6.63          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 13       | 6.63          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 18       | 6.63          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 19       | 6.63          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H    | 20       | 6.63          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 1        | 6.63          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE   | 4        | 6.63          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 10       | 6.63          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 2        | 6.63          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 10       | 6.63          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 14       | 6.63          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 2        | 6.63          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 4        | 6.63          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2  | 12       | 6.63          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3  | 12       | 6.63          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 2        | 6.63          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 2        | 6.63          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 2        | 6.63          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 2        | 6.63          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 16       | 6.63          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 16       | 6.63          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 14       | 6.63          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 9        | 6.63          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 9        | 6.63          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA2   | 15       | 6.63          |
| (1,1864) | 1:A:6:GLN:HE22 | 1:A:8:GLY:HA3   | 15       | 6.63          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 6        | 6.63          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 6        | 6.63          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 2        | 6.63          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 10       | 6.63          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 10       | 6.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 10       | 6.63          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB2  | 17       | 6.63          |
| (1,1638) | 1:A:6:GLN:HB3  | 1:A:18:LEU:HB3  | 17       | 6.63          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 16       | 6.63          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 18       | 6.63          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 19       | 6.63          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 8        | 6.63          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 13       | 6.63          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 15       | 6.63          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 1        | 6.63          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 13       | 6.63          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 11       | 6.63          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 15       | 6.63          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 4        | 6.63          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 12       | 6.63          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 12       | 6.63          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 12       | 6.63          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 6        | 6.63          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 16       | 6.63          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 7        | 6.62          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 12       | 6.62          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 15       | 6.62          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 15       | 6.62          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 17       | 6.62          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 17       | 6.62          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 17       | 6.62          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 10       | 6.62          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 10       | 6.62          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 10       | 6.62          |
| (1,4791) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HD2  | 10       | 6.62          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2  | 6        | 6.62          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3  | 6        | 6.62          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H    | 9        | 6.62          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2  | 6        | 6.62          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3  | 6        | 6.62          |
| (1,4663) | 1:A:26:CYS:HB2 | 1:A:33:CYS:HA   | 14       | 6.62          |
| (1,4457) | 1:A:24:GLY:H   | 1:A:33:CYS:HA   | 1        | 6.62          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1  | 10       | 6.62          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2  | 10       | 6.62          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3  | 10       | 6.62          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1  | 10       | 6.62          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB2  | 10       | 6.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 10       | 6.62          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2  | 12       | 6.62          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3  | 12       | 6.62          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 2        | 6.62          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H    | 19       | 6.62          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 15       | 6.62          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 16       | 6.62          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 5        | 6.62          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 4        | 6.62          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 10       | 6.62          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 6        | 6.62          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 7        | 6.62          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 3        | 6.62          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 6        | 6.62          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 12       | 6.62          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1  | 13       | 6.62          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2  | 13       | 6.62          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 3        | 6.62          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 3        | 6.62          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1  | 5        | 6.62          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2  | 5        | 6.62          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 6        | 6.62          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 20       | 6.62          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD1  | 2        | 6.62          |
| (1,3892) | 1:A:19:CYS:HB3  | 1:A:23:TYR:HD2  | 2        | 6.62          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 12       | 6.62          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 12       | 6.62          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2  | 19       | 6.62          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3  | 19       | 6.62          |
| (1,3642) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HD2  | 13       | 6.62          |
| (1,3570) | 1:A:17:GLY:H    | 1:A:27:GLY:HA3  | 15       | 6.62          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H    | 6        | 6.62          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 17       | 6.62          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 7        | 6.62          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 12       | 6.62          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA   | 16       | 6.62          |
| (1,3362) | 1:A:15:ARG:HG2  | 1:A:21:SER:H    | 11       | 6.62          |
| (1,3362) | 1:A:15:ARG:HG3  | 1:A:21:SER:H    | 11       | 6.62          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 8        | 6.62          |
| (1,3285) | 1:A:15:ARG:HA   | 1:A:28:SER:H    | 16       | 6.62          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H    | 7        | 6.62          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H    | 9        | 6.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 13       | 6.62          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 5        | 6.62          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 12       | 6.62          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 10       | 6.62          |
| (1,2868) | 1:A:11:TRP:HE1 | 1:A:26:CYS:H    | 17       | 6.62          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H    | 7        | 6.62          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H    | 18       | 6.62          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H    | 19       | 6.62          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2  | 20       | 6.62          |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3  | 20       | 6.62          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 15       | 6.62          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2  | 6        | 6.62          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 3        | 6.62          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 12       | 6.62          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 12       | 6.62          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H    | 13       | 6.62          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H    | 13       | 6.62          |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 16       | 6.62          |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 16       | 6.62          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD11 | 20       | 6.62          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD12 | 20       | 6.62          |
| (1,1883) | 1:A:6:GLN:HE22 | 1:A:18:LEU:HD13 | 20       | 6.62          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 13       | 6.62          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 13       | 6.62          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 12       | 6.62          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 1        | 6.62          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 12       | 6.62          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 2        | 6.62          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 2        | 6.62          |
| (1,1472) | 1:A:5:GLY:HA3  | 1:A:12:GLY:H    | 7        | 6.62          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 6        | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 5        | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 5        | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 12       | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 12       | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 14       | 6.62          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 14       | 6.62          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 3        | 6.62          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 12       | 6.62          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 12       | 6.62          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 12       | 6.62          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 12       | 6.62          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 12       | 6.62          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 12       | 6.62          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 20       | 6.62          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 4        | 6.62          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 18       | 6.62          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 3        | 6.62          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 3        | 6.62          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 6        | 6.61          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 19       | 6.61          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 16       | 6.61          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 16       | 6.61          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 7        | 6.61          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 7        | 6.61          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 7        | 6.61          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 7        | 6.61          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 20       | 6.61          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 20       | 6.61          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 15       | 6.61          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 15       | 6.61          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG   | 8        | 6.61          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG   | 8        | 6.61          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 1        | 6.61          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 1        | 6.61          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 2        | 6.61          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 2        | 6.61          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 5        | 6.61          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 10       | 6.61          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 10       | 6.61          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 10       | 6.61          |
| (1,4718) | 1:A:27:GLY:HA3 | 1:A:35:HIS:H    | 11       | 6.61          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 13       | 6.61          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 2        | 6.61          |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H    | 9        | 6.61          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1  | 12       | 6.61          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2  | 12       | 6.61          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3  | 12       | 6.61          |
| (1,4523) | 1:A:25:TYR:H   | 1:A:33:CYS:HA   | 11       | 6.61          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2  | 15       | 6.61          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2  | 15       | 6.61          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3  | 15       | 6.61          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3  | 15       | 6.61          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H    | 16       | 6.61          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 16       | 6.61          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 3        | 6.61          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 18       | 6.61          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 11       | 6.61          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 1        | 6.61          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 1        | 6.61          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 17       | 6.61          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 17       | 6.61          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 7        | 6.61          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 8        | 6.61          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 18       | 6.61          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 8        | 6.61          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 8        | 6.61          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 12       | 6.61          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 12       | 6.61          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 7        | 6.61          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 7        | 6.61          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 7        | 6.61          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 7        | 6.61          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 10       | 6.61          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 6        | 6.61          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 6        | 6.61          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 7        | 6.61          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 7        | 6.61          |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 11       | 6.61          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 20       | 6.61          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 9        | 6.61          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 3        | 6.61          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 3        | 6.61          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 3        | 6.61          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 4        | 6.61          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 4        | 6.61          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 8        | 6.61          |
| (1,3239) | 1:A:14:CYS:HB3  | 1:A:24:GLY:H   | 16       | 6.61          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 9        | 6.61          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 3        | 6.61          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 8        | 6.61          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 8        | 6.61          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 9        | 6.61          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 12       | 6.61          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 16       | 6.61          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 20       | 6.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2677) | 1:A:11:TRP:HB3 | 1:A:15:ARG:H   | 11       | 6.61          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG2 | 9        | 6.61          |
| (1,2617) | 1:A:11:TRP:HA  | 1:A:15:ARG:HG3 | 9        | 6.61          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2 | 12       | 6.61          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 5        | 6.61          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2 | 10       | 6.61          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 7        | 6.61          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 7        | 6.61          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 20       | 6.61          |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 20       | 6.61          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 7        | 6.61          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 7        | 6.61          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 16       | 6.61          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 16       | 6.61          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 6        | 6.61          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 9        | 6.61          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 14       | 6.61          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1 | 2        | 6.61          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2 | 2        | 6.61          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 14       | 6.61          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H   | 1        | 6.61          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H   | 11       | 6.61          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3 | 8        | 6.61          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3 | 10       | 6.61          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3 | 15       | 6.61          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 18       | 6.61          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 18       | 6.61          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H   | 4        | 6.61          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H   | 12       | 6.61          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 10       | 6.61          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1 | 20       | 6.61          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2 | 20       | 6.61          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 9        | 6.61          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2 | 6        | 6.61          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3 | 6        | 6.61          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 18       | 6.6           |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 18       | 6.6           |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2 | 16       | 6.6           |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3 | 16       | 6.6           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 14       | 6.6           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 14       | 6.6           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 14       | 6.6           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 18       | 6.6           |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 19       | 6.6           |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2  | 5        | 6.6           |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 7        | 6.6           |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA   | 1        | 6.6           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2  | 8        | 6.6           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3  | 8        | 6.6           |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1  | 2        | 6.6           |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2  | 2        | 6.6           |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3  | 2        | 6.6           |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2  | 11       | 6.6           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 20       | 6.6           |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 20       | 6.6           |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 13       | 6.6           |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H    | 20       | 6.6           |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA   | 15       | 6.6           |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1  | 17       | 6.6           |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2  | 17       | 6.6           |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3  | 8        | 6.6           |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 19       | 6.6           |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 2        | 6.6           |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 4        | 6.6           |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 5        | 6.6           |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 8        | 6.6           |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 8        | 6.6           |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 8        | 6.6           |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 14       | 6.6           |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1  | 10       | 6.6           |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2  | 10       | 6.6           |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 9        | 6.6           |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 11       | 6.6           |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 4        | 6.6           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1  | 4        | 6.6           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2  | 4        | 6.6           |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1  | 17       | 6.6           |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2  | 17       | 6.6           |
| (1,3809) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HB3  | 14       | 6.6           |
| (1,3809) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HB3  | 14       | 6.6           |
| (1,3809) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HB3  | 14       | 6.6           |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 13       | 6.6           |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3  | 11       | 6.6           |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H    | 1        | 6.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 13       | 6.6           |
| (1,3616) | 1:A:17:GLY:HA2 | 1:A:35:HIS:H   | 8        | 6.6           |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H   | 9        | 6.6           |
| (1,3570) | 1:A:17:GLY:H   | 1:A:27:GLY:HA3 | 16       | 6.6           |
| (1,3545) | 1:A:16:GLY:HA3 | 1:A:33:CYS:HB3 | 13       | 6.6           |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB2 | 15       | 6.6           |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB3 | 15       | 6.6           |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA  | 8        | 6.6           |
| (1,3431) | 1:A:15:ARG:HE  | 1:A:26:CYS:H   | 1        | 6.6           |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2 | 18       | 6.6           |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3 | 18       | 6.6           |
| (1,3406) | 1:A:15:ARG:HD2 | 1:A:27:GLY:HA3 | 13       | 6.6           |
| (1,3406) | 1:A:15:ARG:HD3 | 1:A:27:GLY:HA3 | 13       | 6.6           |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H   | 11       | 6.6           |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H   | 15       | 6.6           |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE  | 13       | 6.6           |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H   | 2        | 6.6           |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2 | 5        | 6.6           |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3 | 5        | 6.6           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2 | 16       | 6.6           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3 | 16       | 6.6           |
| (1,2740) | 1:A:11:TRP:HD1 | 1:A:21:SER:H   | 17       | 6.6           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 7        | 6.6           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 7        | 6.6           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB2 | 9        | 6.6           |
| (1,2683) | 1:A:11:TRP:HB3 | 1:A:18:LEU:HB3 | 9        | 6.6           |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 7        | 6.6           |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 7        | 6.6           |
| (1,2436) | 1:A:9:PRO:HD2  | 1:A:22:GLN:H   | 17       | 6.6           |
| (1,2436) | 1:A:9:PRO:HD3  | 1:A:22:GLN:H   | 17       | 6.6           |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H   | 1        | 6.6           |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB2 | 8        | 6.6           |
| (1,2030) | 1:A:8:GLY:H    | 1:A:15:ARG:HB3 | 8        | 6.6           |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 5        | 6.6           |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 5        | 6.6           |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 6        | 6.6           |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 6        | 6.6           |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 18       | 6.6           |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 18       | 6.6           |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 19       | 6.6           |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 19       | 6.6           |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 5        | 6.6           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3 | 15       | 6.6           |
| (1,1563) | 1:A:6:GLN:HA    | 1:A:22:GLN:H   | 1        | 6.6           |
| (1,1563) | 1:A:6:GLN:HA    | 1:A:22:GLN:H   | 11       | 6.6           |
| (1,1549) | 1:A:6:GLN:HA    | 1:A:9:PRO:HB2  | 17       | 6.6           |
| (1,1549) | 1:A:6:GLN:HA    | 1:A:9:PRO:HB3  | 17       | 6.6           |
| (1,1473) | 1:A:5:GLY:HA3   | 1:A:13:GLY:H   | 2        | 6.6           |
| (1,1473) | 1:A:5:GLY:HA3   | 1:A:13:GLY:H   | 13       | 6.6           |
| (1,1461) | 1:A:5:GLY:HA2   | 1:A:28:SER:H   | 7        | 6.6           |
| (1,1443) | 1:A:5:GLY:H     | 1:A:27:GLY:HA3 | 7        | 6.6           |
| (1,1412) | 1:A:5:GLY:H     | 1:A:14:CYS:HB2 | 11       | 6.6           |
| (1,1363) | 1:A:4:ASN:HD22  | 1:A:26:CYS:H   | 14       | 6.6           |
| (1,1191) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HE1 | 19       | 6.6           |
| (1,1157) | 1:A:4:ASN:HB2   | 1:A:24:GLY:H   | 3        | 6.6           |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2 | 13       | 6.6           |
| (1,1089) | 1:A:4:ASN:H     | 1:A:25:TYR:H   | 12       | 6.6           |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3 | 16       | 6.59          |
| (1,898)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HD1 | 2        | 6.59          |
| (1,898)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HD1 | 2        | 6.59          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 18       | 6.59          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 3        | 6.59          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 18       | 6.59          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2 | 8        | 6.59          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3 | 8        | 6.59          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2 | 10       | 6.59          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3 | 10       | 6.59          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 20       | 6.59          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 10       | 6.59          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 16       | 6.59          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 16       | 6.59          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 17       | 6.59          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 18       | 6.59          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 20       | 6.59          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 5        | 6.59          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 5        | 6.59          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 3        | 6.59          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 3        | 6.59          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 11       | 6.59          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 11       | 6.59          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 11       | 6.59          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 20       | 6.59          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 18       | 6.59          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 3        | 6.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4170) | 1:A:22:GLN:HG2 | 1:A:26:CYS:H    | 16       | 6.59          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB2  | 2        | 6.59          |
| (1,4142) | 1:A:22:GLN:HA  | 1:A:26:CYS:HB3  | 2        | 6.59          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 10       | 6.59          |
| (1,4028) | 1:A:21:SER:H   | 1:A:29:GLY:H    | 13       | 6.59          |
| (1,4028) | 1:A:21:SER:H   | 1:A:29:GLY:H    | 15       | 6.59          |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H    | 12       | 6.59          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD1  | 19       | 6.59          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD2  | 19       | 6.59          |
| (1,3953) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HB3  | 2        | 6.59          |
| (1,3953) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HB3  | 5        | 6.59          |
| (1,3953) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HB3  | 8        | 6.59          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE21 | 17       | 6.59          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE22 | 17       | 6.59          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1  | 3        | 6.59          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2  | 3        | 6.59          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1  | 6        | 6.59          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2  | 6        | 6.59          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1  | 5        | 6.59          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2  | 5        | 6.59          |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB2  | 8        | 6.59          |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB3  | 8        | 6.59          |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB2  | 18       | 6.59          |
| (1,3852) | 1:A:19:CYS:HA  | 1:A:22:GLN:HB3  | 18       | 6.59          |
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3  | 2        | 6.59          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA2  | 20       | 6.59          |
| (1,3685) | 1:A:18:LEU:HB2 | 1:A:24:GLY:HA3  | 20       | 6.59          |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA   | 9        | 6.59          |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA   | 15       | 6.59          |
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3  | 19       | 6.59          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3  | 19       | 6.59          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H    | 16       | 6.59          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H    | 16       | 6.59          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 4        | 6.59          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 16       | 6.59          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 12       | 6.59          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 11       | 6.59          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 4        | 6.59          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H    | 10       | 6.59          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 5        | 6.59          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 6        | 6.59          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 14       | 6.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 14       | 6.59          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 14       | 6.59          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 14       | 6.59          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 14       | 6.59          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H    | 13       | 6.59          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 16       | 6.59          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 16       | 6.59          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 17       | 6.59          |
| (1,2254) | 1:A:9:PRO:HB3  | 1:A:13:GLY:H    | 13       | 6.59          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 9        | 6.59          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 9        | 6.59          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 13       | 6.59          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 3        | 6.59          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 3        | 6.59          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 17       | 6.59          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 17       | 6.59          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 8        | 6.59          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 11       | 6.59          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 11       | 6.59          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 5        | 6.59          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 11       | 6.59          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 20       | 6.59          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3  | 5        | 6.59          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 8        | 6.59          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 8        | 6.59          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 11       | 6.59          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 8        | 6.59          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 8        | 6.59          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 8        | 6.59          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD2  | 1        | 6.58          |
| (1,909)  | 1:A:3:PRO:HG2  | 1:A:15:ARG:HD3  | 1        | 6.58          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD2  | 1        | 6.58          |
| (1,909)  | 1:A:3:PRO:HG3  | 1:A:15:ARG:HD3  | 1        | 6.58          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 14       | 6.58          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 14       | 6.58          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 7        | 6.58          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 14       | 6.58          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 14       | 6.58          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 14       | 6.58          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3   | 14       | 6.58          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 7        | 6.58          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 7        | 6.58          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 7        | 6.58          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 7        | 6.58          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 18       | 6.58          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 18       | 6.58          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 18       | 6.58          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 18       | 6.58          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 14       | 6.58          |
| (1,4791) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HD2 | 19       | 6.58          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 8        | 6.58          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 9        | 6.58          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 4        | 6.58          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 1        | 6.58          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 2        | 6.58          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 8        | 6.58          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 11       | 6.58          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 12       | 6.58          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H   | 15       | 6.58          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2 | 9        | 6.58          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3 | 9        | 6.58          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2 | 19       | 6.58          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3 | 19       | 6.58          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 14       | 6.58          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 14       | 6.58          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 14       | 6.58          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 19       | 6.58          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 16       | 6.58          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 16       | 6.58          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 14       | 6.58          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 3        | 6.58          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 7        | 6.58          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 6        | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 5        | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 5        | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 10       | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 10       | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 17       | 6.58          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 17       | 6.58          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 10       | 6.58          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 10       | 6.58          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 2        | 6.58          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 3        | 6.58          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 4        | 6.58          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2  | 5        | 6.58          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2  | 6        | 6.58          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 9        | 6.58          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 13       | 6.58          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 13       | 6.58          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H    | 9        | 6.58          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1  | 5        | 6.58          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2  | 5        | 6.58          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 7        | 6.58          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 10       | 6.58          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 19       | 6.58          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 11       | 6.58          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 11       | 6.58          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1  | 14       | 6.58          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2  | 14       | 6.58          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 10       | 6.58          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 10       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 9        | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 9        | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 11       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 11       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 12       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 12       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2  | 19       | 6.58          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3  | 19       | 6.58          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 5        | 6.58          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 5        | 6.58          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 5        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 4        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 4        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 4        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 7        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 7        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 7        | 6.58          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 20       | 6.58          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 20       | 6.58          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 20       | 6.58          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 16       | 6.58          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 7        | 6.58          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 7        | 6.58          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1  | 14       | 6.58          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2  | 14       | 6.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3637) | 1:A:17:GLY:HA3 | 1:A:32:TYR:H   | 18       | 6.58          |
| (1,3637) | 1:A:17:GLY:HA3 | 1:A:32:TYR:H   | 19       | 6.58          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB2 | 9        | 6.58          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB3 | 9        | 6.58          |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H   | 13       | 6.58          |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H   | 13       | 6.58          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA  | 18       | 6.58          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2 | 14       | 6.58          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3 | 14       | 6.58          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H   | 12       | 6.58          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 4        | 6.58          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H   | 4        | 6.58          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD1 | 14       | 6.58          |
| (1,3184) | 1:A:14:CYS:H   | 1:A:25:TYR:HD2 | 14       | 6.58          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 14       | 6.58          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H   | 3        | 6.58          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3 | 7        | 6.58          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3 | 18       | 6.58          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3 | 19       | 6.58          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 18       | 6.58          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 18       | 6.58          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 19       | 6.58          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 19       | 6.58          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2 | 14       | 6.58          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 3        | 6.58          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 1        | 6.58          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 11       | 6.58          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 10       | 6.58          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 10       | 6.58          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 13       | 6.58          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 8        | 6.58          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 16       | 6.58          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1 | 10       | 6.58          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2 | 10       | 6.58          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 9        | 6.58          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 13       | 6.58          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1 | 4        | 6.58          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2 | 4        | 6.58          |
| (1,1443) | 1:A:5:GLY:H    | 1:A:27:GLY:HA3 | 2        | 6.58          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2 | 9        | 6.58          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3 | 9        | 6.58          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2 | 18       | 6.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 18       | 6.58          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 20       | 6.58          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 20       | 6.58          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 13       | 6.58          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 8        | 6.58          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 8        | 6.58          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 10       | 6.58          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 8        | 6.58          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 8        | 6.58          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 6        | 6.58          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 4        | 6.58          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 18       | 6.58          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 18       | 6.58          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 18       | 6.58          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 20       | 6.57          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 20       | 6.57          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 16       | 6.57          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 13       | 6.57          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 13       | 6.57          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 13       | 6.57          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 13       | 6.57          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 1        | 6.57          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 11       | 6.57          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 11       | 6.57          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 13       | 6.57          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 13       | 6.57          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 10       | 6.57          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 10       | 6.57          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2  | 15       | 6.57          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3  | 15       | 6.57          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 16       | 6.57          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 16       | 6.57          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 16       | 6.57          |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H    | 12       | 6.57          |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H    | 15       | 6.57          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H    | 19       | 6.57          |
| (1,4646) | 1:A:26:CYS:HA  | 1:A:34:ALA:H    | 13       | 6.57          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3  | 2        | 6.57          |
| (1,4639) | 1:A:26:CYS:HA  | 1:A:31:LYS:HB3  | 18       | 6.57          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H    | 14       | 6.57          |
| (1,4523) | 1:A:25:TYR:H   | 1:A:33:CYS:HA   | 9        | 6.57          |
| (1,4484) | 1:A:24:GLY:HA2 | 1:A:34:ALA:HB1  | 13       | 6.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 13       | 6.57          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 13       | 6.57          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 18       | 6.57          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 7        | 6.57          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 8        | 6.57          |
| (1,4228) | 1:A:22:GLN:HB3  | 1:A:27:GLY:H   | 12       | 6.57          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 4        | 6.57          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 4        | 6.57          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 6        | 6.57          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 6        | 6.57          |
| (1,4117) | 1:A:22:GLN:H    | 1:A:29:GLY:HA3 | 12       | 6.57          |
| (1,4111) | 1:A:22:GLN:H    | 1:A:26:CYS:HB2 | 10       | 6.57          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD2 | 8        | 6.57          |
| (1,3938) | 1:A:20:CYS:H    | 1:A:31:LYS:HD3 | 8        | 6.57          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 7        | 6.57          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 1        | 6.57          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 1        | 6.57          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 11       | 6.57          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 11       | 6.57          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 2        | 6.57          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 2        | 6.57          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 6        | 6.57          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 6        | 6.57          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 18       | 6.57          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 18       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 18       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 18       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 18       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 19       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 19       | 6.57          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 19       | 6.57          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 17       | 6.57          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 15       | 6.57          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 8        | 6.57          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 8        | 6.57          |
| (1,3637) | 1:A:17:GLY:HA3  | 1:A:32:TYR:H   | 16       | 6.57          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 8        | 6.57          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 18       | 6.57          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 18       | 6.57          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD1 | 19       | 6.57          |
| (1,3580) | 1:A:17:GLY:H    | 1:A:32:TYR:HD2 | 19       | 6.57          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 14       | 6.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA3  | 14       | 6.57          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA   | 12       | 6.57          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA   | 19       | 6.57          |
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 1        | 6.57          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 2        | 6.57          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H    | 9        | 6.57          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 8        | 6.57          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H    | 2        | 6.57          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H    | 2        | 6.57          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 5        | 6.57          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 6        | 6.57          |
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3  | 20       | 6.57          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 14       | 6.57          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 14       | 6.57          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H    | 14       | 6.57          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 9        | 6.57          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 9        | 6.57          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 20       | 6.57          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 20       | 6.57          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 2        | 6.57          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 5        | 6.57          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 10       | 6.57          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 7        | 6.57          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 7        | 6.57          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 7        | 6.57          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 7        | 6.57          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 20       | 6.57          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 20       | 6.57          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 3        | 6.57          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 20       | 6.57          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 20       | 6.57          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 20       | 6.57          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 17       | 6.57          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 18       | 6.57          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 18       | 6.57          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 20       | 6.57          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 20       | 6.57          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 20       | 6.57          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 3        | 6.57          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 18       | 6.57          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 19       | 6.57          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 19       | 6.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H   | 11       | 6.57          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 7        | 6.57          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 7        | 6.57          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 5        | 6.57          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 9        | 6.57          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 14       | 6.57          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 2        | 6.57          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 7        | 6.57          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 3        | 6.57          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 6        | 6.56          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 6        | 6.56          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 15       | 6.56          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 15       | 6.56          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 17       | 6.56          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 17       | 6.56          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H   | 18       | 6.56          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 1        | 6.56          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 1        | 6.56          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 18       | 6.56          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 18       | 6.56          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H   | 12       | 6.56          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H   | 12       | 6.56          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 20       | 6.56          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 20       | 6.56          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA  | 20       | 6.56          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA  | 5        | 6.56          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA  | 5        | 6.56          |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1 | 9        | 6.56          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1 | 20       | 6.56          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2 | 20       | 6.56          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3 | 20       | 6.56          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2 | 11       | 6.56          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 18       | 6.56          |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H   | 13       | 6.56          |
| (1,4646) | 1:A:26:CYS:HA  | 1:A:34:ALA:H   | 8        | 6.56          |
| (1,4646) | 1:A:26:CYS:HA  | 1:A:34:ALA:H   | 14       | 6.56          |
| (1,4608) | 1:A:26:CYS:H   | 1:A:28:SER:HB3 | 2        | 6.56          |
| (1,4608) | 1:A:26:CYS:H   | 1:A:28:SER:HB3 | 4        | 6.56          |
| (1,4419) | 1:A:23:TYR:HE1 | 1:A:28:SER:H   | 14       | 6.56          |
| (1,4419) | 1:A:23:TYR:HE2 | 1:A:28:SER:H   | 14       | 6.56          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H   | 10       | 6.56          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H   | 10       | 6.56          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 19       | 6.56          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 19       | 6.56          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 19       | 6.56          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 11       | 6.56          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 15       | 6.56          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB2 | 3        | 6.56          |
| (1,4142) | 1:A:22:GLN:HA   | 1:A:26:CYS:HB3 | 3        | 6.56          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 3        | 6.56          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 11       | 6.56          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 4        | 6.56          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 13       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 1        | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 1        | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 2        | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 2        | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 10       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 10       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 12       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 12       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1 | 13       | 6.56          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2 | 13       | 6.56          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 5        | 6.56          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 5        | 6.56          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 12       | 6.56          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 12       | 6.56          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 12       | 6.56          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 15       | 6.56          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3 | 10       | 6.56          |
| (1,3665) | 1:A:18:LEU:H    | 1:A:35:HIS:HE1 | 12       | 6.56          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 12       | 6.56          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 1        | 6.56          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB2 | 12       | 6.56          |
| (1,3426) | 1:A:15:ARG:HE   | 1:A:19:CYS:HB3 | 12       | 6.56          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 7        | 6.56          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 4        | 6.56          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 4        | 6.56          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H   | 6        | 6.56          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H   | 10       | 6.56          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H   | 3        | 6.56          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H   | 4        | 6.56          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H   | 9        | 6.56          |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 9        | 6.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3054) | 1:A:12:GLY:HA3 | 1:A:20:CYS:HB3 | 16       | 6.56          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2 | 9        | 6.56          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3 | 9        | 6.56          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 11       | 6.56          |
| (1,2724) | 1:A:11:TRP:HD1 | 1:A:14:CYS:H   | 15       | 6.56          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 2        | 6.56          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 10       | 6.56          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 3        | 6.56          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 4        | 6.56          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 6        | 6.56          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2 | 15       | 6.56          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 10       | 6.56          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 10       | 6.56          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 14       | 6.56          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 14       | 6.56          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2 | 7        | 6.56          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 16       | 6.56          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 16       | 6.56          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 19       | 6.56          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 19       | 6.56          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 15       | 6.56          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 18       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 1        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 1        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 2        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 2        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 5        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 5        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 7        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 7        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 8        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 8        | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 11       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 11       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 14       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 14       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 16       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 16       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 18       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 18       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 19       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 19       | 6.56          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 20       | 6.56          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 20       | 6.56          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 4        | 6.56          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 6        | 6.56          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 2        | 6.56          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 19       | 6.56          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 16       | 6.56          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 16       | 6.56          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2  | 14       | 6.56          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 12       | 6.56          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 12       | 6.56          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 16       | 6.56          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 10       | 6.56          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 10       | 6.56          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 10       | 6.56          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 8        | 6.56          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 11       | 6.56          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 12       | 6.56          |
| (1,1157) | 1:A:4:ASN:HB2  | 1:A:24:GLY:H    | 4        | 6.56          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 1        | 6.56          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 1        | 6.56          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 3        | 6.56          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 3        | 6.56          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 17       | 6.56          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 17       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 16       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 16       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 16       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 19       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 19       | 6.56          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 19       | 6.56          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 18       | 6.55          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2  | 8        | 6.55          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3  | 8        | 6.55          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 3        | 6.55          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 3        | 6.55          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 13       | 6.55          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 13       | 6.55          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 13       | 6.55          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 13       | 6.55          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 9        | 6.55          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 15       | 6.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H   | 15       | 6.55          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 4        | 6.55          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 2        | 6.55          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H   | 19       | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 2        | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 2        | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 2        | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 14       | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 14       | 6.55          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 14       | 6.55          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 4        | 6.55          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 9        | 6.55          |
| (1,4639) | 1:A:26:CYS:HA   | 1:A:31:LYS:HB3 | 4        | 6.55          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 1        | 6.55          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 11       | 6.55          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 17       | 6.55          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 15       | 6.55          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 15       | 6.55          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 15       | 6.55          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 15       | 6.55          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 9        | 6.55          |
| (1,4523) | 1:A:25:TYR:H    | 1:A:33:CYS:HA  | 7        | 6.55          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB1 | 15       | 6.55          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB2 | 15       | 6.55          |
| (1,4484) | 1:A:24:GLY:HA2  | 1:A:34:ALA:HB3 | 15       | 6.55          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 13       | 6.55          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 13       | 6.55          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 5        | 6.55          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 5        | 6.55          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 9        | 6.55          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 5        | 6.55          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 9        | 6.55          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 9        | 6.55          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA  | 5        | 6.55          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 1        | 6.55          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 8        | 6.55          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 4        | 6.55          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 4        | 6.55          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 16       | 6.55          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 16       | 6.55          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 1        | 6.55          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 10       | 6.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 19       | 6.55          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 19       | 6.55          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 9        | 6.55          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 11       | 6.55          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 11       | 6.55          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 15       | 6.55          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 15       | 6.55          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 13       | 6.55          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 13       | 6.55          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 10       | 6.55          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 10       | 6.55          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 10       | 6.55          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 6        | 6.55          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 7        | 6.55          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 11       | 6.55          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 18       | 6.55          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 19       | 6.55          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 9        | 6.55          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 9        | 6.55          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 15       | 6.55          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 1        | 6.55          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2 | 17       | 6.55          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3 | 17       | 6.55          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 13       | 6.55          |
| (1,3388) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HB3 | 18       | 6.55          |
| (1,3388) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HB3 | 18       | 6.55          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 17       | 6.55          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 17       | 6.55          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 7        | 6.55          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 9        | 6.55          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 20       | 6.55          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 12       | 6.55          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H   | 4        | 6.55          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 12       | 6.55          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 15       | 6.55          |
| (1,3091) | 1:A:13:GLY:H    | 1:A:18:LEU:H   | 17       | 6.55          |
| (1,3088) | 1:A:13:GLY:H    | 1:A:15:ARG:HE  | 13       | 6.55          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H   | 14       | 6.55          |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 1        | 6.55          |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H   | 3        | 6.55          |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H   | 4        | 6.55          |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H   | 5        | 6.55          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2640) | 1:A:11:TRP:HB2 | 1:A:15:ARG:HE   | 7        | 6.55          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 14       | 6.55          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 14       | 6.55          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG   | 14       | 6.55          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE   | 18       | 6.55          |
| (1,1988) | 1:A:7:CYS:HB2  | 1:A:17:GLY:H    | 14       | 6.55          |
| (1,1988) | 1:A:7:CYS:HB3  | 1:A:17:GLY:H    | 14       | 6.55          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 2        | 6.55          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 2        | 6.55          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 4        | 6.55          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 4        | 6.55          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 9        | 6.55          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 9        | 6.55          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 1        | 6.55          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3  | 15       | 6.55          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 18       | 6.55          |
| (1,1757) | 1:A:6:GLN:HG3  | 1:A:20:CYS:HB2  | 19       | 6.55          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 14       | 6.55          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 14       | 6.55          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 16       | 6.55          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 16       | 6.55          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 3        | 6.55          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 4        | 6.55          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 19       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 3        | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 3        | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 6        | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 6        | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 10       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 10       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 12       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 12       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2   | 15       | 6.55          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3   | 15       | 6.55          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB2  | 7        | 6.55          |
| (1,1424) | 1:A:5:GLY:H    | 1:A:20:CYS:HB3  | 7        | 6.55          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2   | 14       | 6.55          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3   | 14       | 6.55          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 9        | 6.55          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 9        | 6.55          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 9        | 6.55          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 9        | 6.55          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD22 | 9        | 6.55          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD23 | 9        | 6.55          |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2  | 7        | 6.55          |
| (1,1089) | 1:A:4:ASN:H     | 1:A:25:TYR:H    | 1        | 6.55          |
| (1,1089) | 1:A:4:ASN:H     | 1:A:25:TYR:H    | 8        | 6.55          |
| (1,975)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HB3  | 18       | 6.54          |
| (1,933)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HB2  | 4        | 6.54          |
| (1,933)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HB2  | 4        | 6.54          |
| (1,720)  | 1:A:2:GLY:HA3   | 1:A:13:GLY:H    | 19       | 6.54          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2  | 14       | 6.54          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3  | 14       | 6.54          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB2  | 9        | 6.54          |
| (1,618)  | 1:A:2:GLY:H     | 1:A:15:ARG:HB3  | 9        | 6.54          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2   | 6        | 6.54          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3   | 6        | 6.54          |
| (1,572)  | 1:A:1:SER:HB2   | 1:A:24:GLY:H    | 7        | 6.54          |
| (1,572)  | 1:A:1:SER:HB3   | 1:A:24:GLY:H    | 7        | 6.54          |
| (1,572)  | 1:A:1:SER:HB2   | 1:A:24:GLY:H    | 19       | 6.54          |
| (1,572)  | 1:A:1:SER:HB3   | 1:A:24:GLY:H    | 19       | 6.54          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG   | 4        | 6.54          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG   | 4        | 6.54          |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2  | 13       | 6.54          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2  | 13       | 6.54          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 3        | 6.54          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 13       | 6.54          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 8        | 6.54          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 8        | 6.54          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 8        | 6.54          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 8        | 6.54          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2  | 14       | 6.54          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3  | 14       | 6.54          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H    | 17       | 6.54          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H    | 17       | 6.54          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H    | 2        | 6.54          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H    | 2        | 6.54          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA   | 15       | 6.54          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 15       | 6.54          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2  | 17       | 6.54          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3  | 17       | 6.54          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H    | 16       | 6.54          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H    | 4        | 6.54          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 18       | 6.54          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 5        | 6.54          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 5        | 6.54          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 17       | 6.54          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 9        | 6.54          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 12       | 6.54          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 13       | 6.54          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 8        | 6.54          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 8        | 6.54          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 13       | 6.54          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 13       | 6.54          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB2 | 4        | 6.54          |
| (1,3852) | 1:A:19:CYS:HA   | 1:A:22:GLN:HB3 | 4        | 6.54          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 15       | 6.54          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H   | 6        | 6.54          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H   | 6        | 6.54          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H   | 6        | 6.54          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 9        | 6.54          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 9        | 6.54          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 9        | 6.54          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H   | 5        | 6.54          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 12       | 6.54          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 20       | 6.54          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 10       | 6.54          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 16       | 6.54          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 12       | 6.54          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 12       | 6.54          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 17       | 6.54          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 14       | 6.54          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 14       | 6.54          |
| (1,3472) | 1:A:16:GLY:H    | 1:A:26:CYS:HA  | 11       | 6.54          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 6        | 6.54          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 6        | 6.54          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 3        | 6.54          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 3        | 6.54          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 4        | 6.54          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 4        | 6.54          |
| (1,3327) | 1:A:15:ARG:HB3  | 1:A:20:CYS:HB2 | 13       | 6.54          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 8        | 6.54          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 6        | 6.54          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 6        | 6.54          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 3        | 6.54          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG  | 14       | 6.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG  | 12       | 6.54          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB2 | 17       | 6.54          |
| (1,2863) | 1:A:11:TRP:HE1 | 1:A:23:TYR:HB3 | 17       | 6.54          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 20       | 6.54          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 20       | 6.54          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 6        | 6.54          |
| (1,2638) | 1:A:11:TRP:HB2 | 1:A:15:ARG:H   | 1        | 6.54          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 8        | 6.54          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 8        | 6.54          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 12       | 6.54          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 12       | 6.54          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 11       | 6.54          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 6        | 6.54          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 12       | 6.54          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3 | 11       | 6.54          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3 | 12       | 6.54          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 6        | 6.54          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 14       | 6.54          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 16       | 6.54          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 4        | 6.54          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 4        | 6.54          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 9        | 6.54          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 9        | 6.54          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 17       | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 1        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 1        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 2        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 2        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 4        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 4        | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 20       | 6.54          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 20       | 6.54          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 11       | 6.54          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 11       | 6.54          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1 | 9        | 6.54          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2 | 9        | 6.54          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2 | 3        | 6.53          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2 | 3        | 6.53          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 10       | 6.53          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 10       | 6.53          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 11       | 6.53          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 11       | 6.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2  | 10       | 6.53          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3  | 10       | 6.53          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 5        | 6.53          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 13       | 6.53          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 15       | 6.53          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H   | 4        | 6.53          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H   | 4        | 6.53          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 16       | 6.53          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H   | 2        | 6.53          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 10       | 6.53          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 10       | 6.53          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 10       | 6.53          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 2        | 6.53          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 13       | 6.53          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H   | 16       | 6.53          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 20       | 6.53          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 3        | 6.53          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 14       | 6.53          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 5        | 6.53          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 6        | 6.53          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 15       | 6.53          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 1        | 6.53          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 8        | 6.53          |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 2        | 6.53          |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 2        | 6.53          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 10       | 6.53          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 11       | 6.53          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 11       | 6.53          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 20       | 6.53          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 2        | 6.53          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 6        | 6.53          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG2 | 17       | 6.53          |
| (1,4286) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HG3 | 17       | 6.53          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA2 | 17       | 6.53          |
| (1,4283) | 1:A:22:GLN:HE21 | 1:A:29:GLY:HA3 | 17       | 6.53          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 3        | 6.53          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 20       | 6.53          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 9        | 6.53          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 3        | 6.53          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 5        | 6.53          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H   | 11       | 6.53          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 4        | 6.53          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 19       | 6.53          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 19       | 6.53          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1  | 7        | 6.53          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2  | 7        | 6.53          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 15       | 6.53          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 15       | 6.53          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 7        | 6.53          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 17       | 6.53          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 17       | 6.53          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 17       | 6.53          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 8        | 6.53          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 8        | 6.53          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 8        | 6.53          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 13       | 6.53          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 13       | 6.53          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 13       | 6.53          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3  | 8        | 6.53          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2  | 8        | 6.53          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3  | 8        | 6.53          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2  | 16       | 6.53          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3  | 16       | 6.53          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2  | 5        | 6.53          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3  | 5        | 6.53          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB2  | 6        | 6.53          |
| (1,3524) | 1:A:16:GLY:HA3  | 1:A:20:CYS:HB3  | 6        | 6.53          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H    | 2        | 6.53          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H    | 2        | 6.53          |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H    | 15       | 6.53          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2  | 11       | 6.53          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 8        | 6.53          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2  | 3        | 6.53          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3  | 3        | 6.53          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H    | 20       | 6.53          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H    | 5        | 6.53          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H    | 10       | 6.53          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H    | 20       | 6.53          |
| (1,2638) | 1:A:11:TRP:HB2  | 1:A:15:ARG:H    | 11       | 6.53          |
| (1,2371) | 1:A:9:PRO:HG3   | 1:A:13:GLY:H    | 9        | 6.53          |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB1  | 4        | 6.53          |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB2  | 4        | 6.53          |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB3  | 4        | 6.53          |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB1  | 4        | 6.53          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 4        | 6.53          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 4        | 6.53          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 3        | 6.53          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 3        | 6.53          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 5        | 6.53          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 9        | 6.53          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 9        | 6.53          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 12       | 6.53          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 12       | 6.53          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 7        | 6.53          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 13       | 6.53          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 5        | 6.53          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H    | 7        | 6.53          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 12       | 6.53          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 15       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2   | 10       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3   | 10       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2   | 15       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3   | 15       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2   | 19       | 6.53          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3   | 19       | 6.53          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 12       | 6.53          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 12       | 6.53          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 16       | 6.53          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 16       | 6.53          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 13       | 6.53          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H    | 7        | 6.53          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 12       | 6.53          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 5        | 6.53          |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 5        | 6.53          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 20       | 6.53          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 20       | 6.53          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 20       | 6.53          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 19       | 6.52          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 5        | 6.52          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 5        | 6.52          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 16       | 6.52          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 16       | 6.52          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 7        | 6.52          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2  | 4        | 6.52          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3  | 4        | 6.52          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 11       | 6.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 11       | 6.52          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2  | 14       | 6.52          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2  | 14       | 6.52          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3  | 14       | 6.52          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3  | 14       | 6.52          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 2        | 6.52          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 2        | 6.52          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 2        | 6.52          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 15       | 6.52          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H   | 4        | 6.52          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H   | 15       | 6.52          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2 | 19       | 6.52          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3 | 19       | 6.52          |
| (1,4648) | 1:A:26:CYS:HA  | 1:A:35:HIS:H   | 6        | 6.52          |
| (1,4646) | 1:A:26:CYS:HA  | 1:A:34:ALA:H   | 7        | 6.52          |
| (1,4608) | 1:A:26:CYS:H   | 1:A:28:SER:HB3 | 8        | 6.52          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H   | 4        | 6.52          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H   | 11       | 6.52          |
| (1,4376) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HB2 | 15       | 6.52          |
| (1,4226) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HA  | 2        | 6.52          |
| (1,4153) | 1:A:22:GLN:HA  | 1:A:34:ALA:H   | 9        | 6.52          |
| (1,4113) | 1:A:22:GLN:H   | 1:A:28:SER:H   | 17       | 6.52          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 12       | 6.52          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 12       | 6.52          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 15       | 6.52          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 15       | 6.52          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA  | 12       | 6.52          |
| (1,4062) | 1:A:21:SER:HB3 | 1:A:31:LYS:HG3 | 6        | 6.52          |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H   | 2        | 6.52          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD1 | 20       | 6.52          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD2 | 20       | 6.52          |
| (1,3954) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HG3 | 14       | 6.52          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG2 | 14       | 6.52          |
| (1,3936) | 1:A:20:CYS:H   | 1:A:31:LYS:HG3 | 14       | 6.52          |
| (1,3904) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HG3 | 5        | 6.52          |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2 | 11       | 6.52          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 9        | 6.52          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 9        | 6.52          |
| (1,3838) | 1:A:19:CYS:H   | 1:A:30:PRO:HD3 | 1        | 6.52          |
| (1,3838) | 1:A:19:CYS:H   | 1:A:30:PRO:HD3 | 11       | 6.52          |
| (1,3838) | 1:A:19:CYS:H   | 1:A:30:PRO:HD3 | 17       | 6.52          |
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3 | 8        | 6.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3 | 9        | 6.52          |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 9        | 6.52          |
| (1,3640) | 1:A:17:GLY:HA3 | 1:A:33:CYS:H   | 11       | 6.52          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1 | 4        | 6.52          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2 | 4        | 6.52          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 5        | 6.52          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 6        | 6.52          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 17       | 6.52          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 3        | 6.52          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2 | 18       | 6.52          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3 | 18       | 6.52          |
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3 | 20       | 6.52          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3 | 20       | 6.52          |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3 | 4        | 6.52          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H   | 2        | 6.52          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG  | 8        | 6.52          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG  | 15       | 6.52          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H   | 5        | 6.52          |
| (1,3091) | 1:A:13:GLY:H   | 1:A:18:LEU:H   | 6        | 6.52          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3 | 9        | 6.52          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 14       | 6.52          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 14       | 6.52          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 8        | 6.52          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 8        | 6.52          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 7        | 6.52          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 18       | 6.52          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 19       | 6.52          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 20       | 6.52          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2 | 11       | 6.52          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 12       | 6.52          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 12       | 6.52          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 2        | 6.52          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 10       | 6.52          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3 | 9        | 6.52          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3 | 16       | 6.52          |
| (1,1563) | 1:A:6:GLN:HA   | 1:A:22:GLN:H   | 10       | 6.52          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB2  | 13       | 6.52          |
| (1,1549) | 1:A:6:GLN:HA   | 1:A:9:PRO:HB3  | 13       | 6.52          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H   | 5        | 6.52          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H   | 16       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 3        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 3        | 6.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 5        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 5        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 6        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 6        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 7        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 7        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 8        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 8        | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 11       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 11       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 13       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 13       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 16       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 16       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA2  | 18       | 6.52          |
| (1,1398) | 1:A:5:GLY:H    | 1:A:8:GLY:HA3  | 18       | 6.52          |
| (1,1225) | 1:A:4:ASN:HB3  | 1:A:27:GLY:H   | 18       | 6.52          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 15       | 6.52          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 16       | 6.52          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 13       | 6.52          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 15       | 6.52          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 20       | 6.51          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 20       | 6.51          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H   | 13       | 6.51          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H   | 4        | 6.51          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2 | 8        | 6.51          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3 | 8        | 6.51          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2  | 1        | 6.51          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3  | 1        | 6.51          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2 | 10       | 6.51          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 11       | 6.51          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 11       | 6.51          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 18       | 6.51          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 18       | 6.51          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2 | 19       | 6.51          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3 | 19       | 6.51          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2 | 4        | 6.51          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 19       | 6.51          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 19       | 6.51          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 19       | 6.51          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 4        | 6.51          |
| (1,4680) | 1:A:27:GLY:H   | 1:A:31:LYS:HA  | 6        | 6.51          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H    | 5        | 6.51          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H    | 11       | 6.51          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG2  | 4        | 6.51          |
| (1,4638) | 1:A:26:CYS:HA   | 1:A:31:LYS:HG3  | 4        | 6.51          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 9        | 6.51          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 12       | 6.51          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 14       | 6.51          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 15       | 6.51          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 8        | 6.51          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 8        | 6.51          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 8        | 6.51          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 8        | 6.51          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 8        | 6.51          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 8        | 6.51          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 3        | 6.51          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 14       | 6.51          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 14       | 6.51          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 6        | 6.51          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2  | 6        | 6.51          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3  | 6        | 6.51          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2  | 17       | 6.51          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3  | 17       | 6.51          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA2  | 1        | 6.51          |
| (1,4259) | 1:A:22:GLN:HG3  | 1:A:29:GLY:HA3  | 1        | 6.51          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H    | 19       | 6.51          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 8        | 6.51          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 13       | 6.51          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 11       | 6.51          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 13       | 6.51          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H    | 6        | 6.51          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 7        | 6.51          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 17       | 6.51          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 17       | 6.51          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 9        | 6.51          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H    | 14       | 6.51          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 13       | 6.51          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 17       | 6.51          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 10       | 6.51          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 10       | 6.51          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2  | 8        | 6.51          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1  | 15       | 6.51          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2  | 15       | 6.51          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 9        | 6.51          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 13       | 6.51          |
| (1,3807) | 1:A:18:LEU:HD21 | 1:A:24:GLY:H    | 15       | 6.51          |
| (1,3807) | 1:A:18:LEU:HD22 | 1:A:24:GLY:H    | 15       | 6.51          |
| (1,3807) | 1:A:18:LEU:HD23 | 1:A:24:GLY:H    | 15       | 6.51          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1  | 9        | 6.51          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2  | 9        | 6.51          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3  | 9        | 6.51          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 12       | 6.51          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 4        | 6.51          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 10       | 6.51          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 10       | 6.51          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2  | 19       | 6.51          |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3  | 19       | 6.51          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3  | 15       | 6.51          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2  | 10       | 6.51          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3  | 10       | 6.51          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2  | 17       | 6.51          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3  | 17       | 6.51          |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H    | 18       | 6.51          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 8        | 6.51          |
| (1,3040) | 1:A:12:GLY:HA2  | 1:A:20:CYS:H    | 8        | 6.51          |
| (1,2803) | 1:A:11:TRP:HE3  | 1:A:26:CYS:H    | 17       | 6.51          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 18       | 6.51          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 18       | 6.51          |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H    | 1        | 6.51          |
| (1,2649) | 1:A:11:TRP:HB2  | 1:A:21:SER:H    | 14       | 6.51          |
| (1,2371) | 1:A:9:PRO:HG3   | 1:A:13:GLY:H    | 8        | 6.51          |
| (1,2371) | 1:A:9:PRO:HG3   | 1:A:13:GLY:H    | 16       | 6.51          |
| (1,2112) | 1:A:8:GLY:HA3   | 1:A:21:SER:HG   | 4        | 6.51          |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H    | 4        | 6.51          |
| (1,1770) | 1:A:6:GLN:HG3   | 1:A:27:GLY:H    | 1        | 6.51          |
| (1,1770) | 1:A:6:GLN:HG3   | 1:A:27:GLY:H    | 15       | 6.51          |
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3  | 19       | 6.51          |
| (1,1563) | 1:A:6:GLN:HA    | 1:A:22:GLN:H    | 2        | 6.51          |
| (1,1398) | 1:A:5:GLY:H     | 1:A:8:GLY:HA2   | 9        | 6.51          |
| (1,1398) | 1:A:5:GLY:H     | 1:A:8:GLY:HA3   | 9        | 6.51          |
| (1,1398) | 1:A:5:GLY:H     | 1:A:8:GLY:HA2   | 12       | 6.51          |
| (1,1398) | 1:A:5:GLY:H     | 1:A:8:GLY:HA3   | 12       | 6.51          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD11 | 20       | 6.51          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD12 | 20       | 6.51          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD13 | 20       | 6.51          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD21 | 20       | 6.51          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD22 | 20       | 6.51          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD23 | 20       | 6.51          |
| (1,1226) | 1:A:4:ASN:HB3   | 1:A:27:GLY:HA2  | 15       | 6.51          |
| (1,1221) | 1:A:4:ASN:HB3   | 1:A:24:GLY:HA2  | 14       | 6.51          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2  | 3        | 6.5           |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3  | 3        | 6.5           |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2   | 5        | 6.5           |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3   | 5        | 6.5           |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 17       | 6.5           |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3  | 19       | 6.5           |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3  | 19       | 6.5           |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2  | 12       | 6.5           |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22  | 4        | 6.5           |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22  | 20       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:HB2  | 19       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:HB2  | 19       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2  | 19       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:HB2  | 20       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:HB2  | 20       | 6.5           |
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2  | 20       | 6.5           |
| (1,4890) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HA   | 15       | 6.5           |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 8        | 6.5           |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3  | 6        | 6.5           |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2  | 2        | 6.5           |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3  | 2        | 6.5           |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA   | 1        | 6.5           |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 4        | 6.5           |
| (1,4403) | 1:A:23:TYR:HD1  | 1:A:31:LYS:H    | 2        | 6.5           |
| (1,4403) | 1:A:23:TYR:HD2  | 1:A:31:LYS:H    | 2        | 6.5           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2  | 7        | 6.5           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3  | 7        | 6.5           |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 7        | 6.5           |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 5        | 6.5           |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 19       | 6.5           |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H    | 13       | 6.5           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 20       | 6.5           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 20       | 6.5           |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 11       | 6.5           |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H    | 9        | 6.5           |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 11       | 6.5           |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H    | 15       | 6.5           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 7        | 6.5           |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 7        | 6.5           |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 20       | 6.5           |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 8        | 6.5           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 18       | 6.5           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 18       | 6.5           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1 | 19       | 6.5           |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2 | 19       | 6.5           |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 8        | 6.5           |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 2        | 6.5           |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 2        | 6.5           |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 2        | 6.5           |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 8        | 6.5           |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 8        | 6.5           |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1 | 9        | 6.5           |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2 | 9        | 6.5           |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H   | 20       | 6.5           |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 6        | 6.5           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 7        | 6.5           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 7        | 6.5           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB2 | 20       | 6.5           |
| (1,3552) | 1:A:17:GLY:H    | 1:A:20:CYS:HB3 | 20       | 6.5           |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 2        | 6.5           |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H   | 11       | 6.5           |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 19       | 6.5           |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 17       | 6.5           |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H   | 8        | 6.5           |
| (1,3040) | 1:A:12:GLY:HA2  | 1:A:20:CYS:H   | 12       | 6.5           |
| (1,2724) | 1:A:11:TRP:HD1  | 1:A:14:CYS:H   | 13       | 6.5           |
| (1,2112) | 1:A:8:GLY:HA3   | 1:A:21:SER:HG  | 10       | 6.5           |
| (1,1941) | 1:A:7:CYS:H     | 1:A:19:CYS:HB3 | 8        | 6.5           |
| (1,1770) | 1:A:6:GLN:HG3   | 1:A:27:GLY:H   | 7        | 6.5           |
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3 | 18       | 6.5           |
| (1,1593) | 1:A:6:GLN:HB2   | 1:A:14:CYS:HB3 | 20       | 6.5           |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD1 | 20       | 6.5           |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD2 | 20       | 6.5           |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2 | 12       | 6.5           |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3 | 12       | 6.5           |
| (1,1225) | 1:A:4:ASN:HB3   | 1:A:27:GLY:H   | 19       | 6.5           |
| (1,1158) | 1:A:4:ASN:HB2   | 1:A:24:GLY:HA2 | 8        | 6.5           |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2 | 16       | 6.5           |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA  | 6        | 6.5           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB2  | 2        | 6.5           |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB3  | 2        | 6.5           |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB2  | 10       | 6.5           |
| (1,1064) | 1:A:4:ASN:H     | 1:A:14:CYS:HB3  | 10       | 6.5           |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD11 | 9        | 6.5           |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD12 | 9        | 6.5           |
| (1,1014) | 1:A:3:PRO:HD3   | 1:A:18:LEU:HD13 | 9        | 6.5           |
| (1,898)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HD1  | 7        | 6.49          |
| (1,898)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HD1  | 7        | 6.49          |
| (1,898)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HD1  | 13       | 6.49          |
| (1,898)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HD1  | 13       | 6.49          |
| (1,642)  | 1:A:2:GLY:H     | 1:A:25:TYR:H    | 9        | 6.49          |
| (1,642)  | 1:A:2:GLY:H     | 1:A:25:TYR:H    | 17       | 6.49          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD1  | 12       | 6.49          |
| (1,588)  | 1:A:1:SER:HB2   | 1:A:32:TYR:HD2  | 12       | 6.49          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD1  | 12       | 6.49          |
| (1,588)  | 1:A:1:SER:HB3   | 1:A:32:TYR:HD2  | 12       | 6.49          |
| (1,4914) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HE1  | 11       | 6.49          |
| (1,4914) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HE1  | 11       | 6.49          |
| (1,4914) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HE1  | 11       | 6.49          |
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H    | 6        | 6.49          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H    | 6        | 6.49          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA   | 15       | 6.49          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1  | 8        | 6.49          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2  | 8        | 6.49          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3  | 8        | 6.49          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 12       | 6.49          |
| (1,4704) | 1:A:27:GLY:HA2  | 1:A:34:ALA:H    | 14       | 6.49          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 1        | 6.49          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 1        | 6.49          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA   | 11       | 6.49          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H    | 17       | 6.49          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 2        | 6.49          |
| (1,4646) | 1:A:26:CYS:HA   | 1:A:34:ALA:H    | 16       | 6.49          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2  | 4        | 6.49          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3  | 4        | 6.49          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 11       | 6.49          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 11       | 6.49          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H    | 11       | 6.49          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 12       | 6.49          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 1        | 6.49          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 17       | 6.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 1        | 6.49          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 14       | 6.49          |
| (1,3976) | 1:A:20:CYS:HB2 | 1:A:34:ALA:H    | 12       | 6.49          |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H    | 1        | 6.49          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD1  | 17       | 6.49          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD2  | 17       | 6.49          |
| (1,3953) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HB3  | 17       | 6.49          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE21 | 15       | 6.49          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE22 | 15       | 6.49          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1  | 20       | 6.49          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2  | 20       | 6.49          |
| (1,3870) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HE21 | 14       | 6.49          |
| (1,3870) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HE22 | 14       | 6.49          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1  | 14       | 6.49          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2  | 14       | 6.49          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1  | 16       | 6.49          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2  | 16       | 6.49          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1  | 2        | 6.49          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2  | 2        | 6.49          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA   | 17       | 6.49          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD1  | 16       | 6.49          |
| (1,3580) | 1:A:17:GLY:H   | 1:A:32:TYR:HD2  | 16       | 6.49          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2  | 14       | 6.49          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3  | 14       | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 2        | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 2        | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 4        | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 4        | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2  | 10       | 6.49          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3  | 10       | 6.49          |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 3        | 6.49          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2  | 2        | 6.49          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3  | 2        | 6.49          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 10       | 6.49          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 10       | 6.49          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 18       | 6.49          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 19       | 6.49          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H    | 9        | 6.49          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H    | 11       | 6.49          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H    | 15       | 6.49          |
| (1,2465) | 1:A:10:GLY:H   | 1:A:20:CYS:HB2  | 17       | 6.49          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 2        | 6.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 5        | 6.49          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 6        | 6.49          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 10       | 6.49          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG   | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 2        | 6.49          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 2        | 6.49          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 5        | 6.49          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 5        | 6.49          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 9        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 1        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 1        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 7        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 7        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 8        | 6.49          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 8        | 6.49          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 8        | 6.49          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 4        | 6.49          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 6        | 6.49          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 12       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 16       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 16       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 18       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 18       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 19       | 6.49          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 19       | 6.49          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE1  | 2        | 6.49          |
| (1,1542) | 1:A:6:GLN:H    | 1:A:32:TYR:HE2  | 2        | 6.49          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 16       | 6.49          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 9        | 6.49          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2  | 11       | 6.49          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 16       | 6.49          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 17       | 6.49          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 17       | 6.49          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 15       | 6.49          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 15       | 6.49          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 15       | 6.49          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1  | 17       | 6.49          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 20       | 6.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD11 | 7        | 6.49          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD12 | 7        | 6.49          |
| (1,1014) | 1:A:3:PRO:HD3  | 1:A:18:LEU:HD13 | 7        | 6.49          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 17       | 6.48          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 19       | 6.48          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 19       | 6.48          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 11       | 6.48          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 12       | 6.48          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 15       | 6.48          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 16       | 6.48          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 12       | 6.48          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 12       | 6.48          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 14       | 6.48          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 14       | 6.48          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 15       | 6.48          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 15       | 6.48          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 16       | 6.48          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 11       | 6.48          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 2        | 6.48          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 6        | 6.48          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2  | 8        | 6.48          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2  | 14       | 6.48          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3  | 14       | 6.48          |
| (1,4704) | 1:A:27:GLY:HA2 | 1:A:34:ALA:H    | 7        | 6.48          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2  | 16       | 6.48          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3  | 16       | 6.48          |
| (1,4608) | 1:A:26:CYS:H   | 1:A:28:SER:HB3  | 7        | 6.48          |
| (1,4485) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HB2  | 20       | 6.48          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE2  | 19       | 6.48          |
| (1,4455) | 1:A:24:GLY:H   | 1:A:31:LYS:HE3  | 19       | 6.48          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB2  | 7        | 6.48          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB3  | 7        | 6.48          |
| (1,4252) | 1:A:22:GLN:HG3 | 1:A:26:CYS:HA   | 16       | 6.48          |
| (1,4226) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HA   | 4        | 6.48          |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H    | 4        | 6.48          |
| (1,4165) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HB3  | 19       | 6.48          |
| (1,4113) | 1:A:22:GLN:H   | 1:A:28:SER:H    | 2        | 6.48          |
| (1,4037) | 1:A:21:SER:H   | 1:A:31:LYS:HD2  | 2        | 6.48          |
| (1,4037) | 1:A:21:SER:H   | 1:A:31:LYS:HD3  | 2        | 6.48          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ1  | 12       | 6.48          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ2  | 12       | 6.48          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ3  | 12       | 6.48          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 5        | 6.48          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 5        | 6.48          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 10       | 6.48          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 10       | 6.48          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 16       | 6.48          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 16       | 6.48          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1 | 8        | 6.48          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2 | 8        | 6.48          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1 | 9        | 6.48          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2 | 9        | 6.48          |
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3 | 6        | 6.48          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 14       | 6.48          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 2        | 6.48          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 10       | 6.48          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB2 | 9        | 6.48          |
| (1,3552) | 1:A:17:GLY:H   | 1:A:20:CYS:HB3 | 9        | 6.48          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB1 | 10       | 6.48          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB2 | 10       | 6.48          |
| (1,3521) | 1:A:16:GLY:HA2 | 1:A:34:ALA:HB3 | 10       | 6.48          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 7        | 6.48          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 7        | 6.48          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 5        | 6.48          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 5        | 6.48          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H   | 6        | 6.48          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG  | 9        | 6.48          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 20       | 6.48          |
| (1,2438) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HG3 | 5        | 6.48          |
| (1,2438) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HG3 | 5        | 6.48          |
| (1,2437) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HB3 | 17       | 6.48          |
| (1,2437) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HB3 | 17       | 6.48          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2 | 1        | 6.48          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 3        | 6.48          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 4        | 6.48          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 6        | 6.48          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 9        | 6.48          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 18       | 6.48          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 19       | 6.48          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 20       | 6.48          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 11       | 6.48          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 16       | 6.48          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 18       | 6.48          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 19       | 6.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 1        | 6.48          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 3        | 6.48          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 16       | 6.48          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 18       | 6.48          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 19       | 6.48          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 10       | 6.48          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 10       | 6.48          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 8        | 6.48          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 11       | 6.48          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 18       | 6.48          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 14       | 6.48          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 14       | 6.48          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 14       | 6.48          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 4        | 6.48          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 4        | 6.48          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 6        | 6.47          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 6        | 6.47          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 8        | 6.47          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 8        | 6.47          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 12       | 6.47          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 12       | 6.47          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 16       | 6.47          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 16       | 6.47          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1  | 18       | 6.47          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1  | 18       | 6.47          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 14       | 6.47          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 14       | 6.47          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 15       | 6.47          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 8        | 6.47          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 11       | 6.47          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 11       | 6.47          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 13       | 6.47          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 13       | 6.47          |
| (1,506)  | 1:A:1:SER:HA   | 1:A:4:ASN:HD22  | 15       | 6.47          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1  | 7        | 6.47          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1  | 7        | 6.47          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 13       | 6.47          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 9        | 6.47          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2  | 8        | 6.47          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3  | 8        | 6.47          |
| (1,4426) | 1:A:23:TYR:HE1 | 1:A:31:LYS:H    | 1        | 6.47          |
| (1,4426) | 1:A:23:TYR:HE2 | 1:A:31:LYS:H    | 1        | 6.47          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 5        | 6.47          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 5        | 6.47          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 5        | 6.47          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H    | 16       | 6.47          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 5        | 6.47          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 5        | 6.47          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 10       | 6.47          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA   | 16       | 6.47          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 17       | 6.47          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 15       | 6.47          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 14       | 6.47          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 14       | 6.47          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2  | 17       | 6.47          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3  | 17       | 6.47          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 16       | 6.47          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 18       | 6.47          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 19       | 6.47          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 20       | 6.47          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA   | 3        | 6.47          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 18       | 6.47          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 18       | 6.47          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1  | 1        | 6.47          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2  | 1        | 6.47          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 9        | 6.47          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 6        | 6.47          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 6        | 6.47          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD1  | 17       | 6.47          |
| (1,3875) | 1:A:19:CYS:HB2  | 1:A:25:TYR:HD2  | 17       | 6.47          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1  | 3        | 6.47          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2  | 3        | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1  | 18       | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2  | 18       | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1  | 19       | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2  | 19       | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD1  | 20       | 6.47          |
| (1,3858) | 1:A:19:CYS:HA   | 1:A:25:TYR:HD2  | 20       | 6.47          |
| (1,3853) | 1:A:19:CYS:HA   | 1:A:22:GLN:HG3  | 1        | 6.47          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 14       | 6.47          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 5        | 6.47          |
| (1,3548) | 1:A:16:GLY:HA3  | 1:A:35:HIS:HD2  | 13       | 6.47          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3  | 18       | 6.47          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3  | 18       | 6.47          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H   | 6        | 6.47          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H   | 5        | 6.47          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG  | 9        | 6.47          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3 | 20       | 6.47          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H   | 7        | 6.47          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H   | 16       | 6.47          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 7        | 6.47          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 16       | 6.47          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 18       | 6.47          |
| (1,3040) | 1:A:12:GLY:HA2 | 1:A:20:CYS:H   | 19       | 6.47          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 8        | 6.47          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 8        | 6.47          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 8        | 6.47          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 12       | 6.47          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 12       | 6.47          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 5        | 6.47          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 5        | 6.47          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 12       | 6.47          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 3        | 6.47          |
| (1,2112) | 1:A:8:GLY:HA3  | 1:A:21:SER:HG  | 5        | 6.47          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 14       | 6.47          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 14       | 6.47          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 14       | 6.47          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 14       | 6.47          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 14       | 6.47          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 14       | 6.47          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2 | 17       | 6.47          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3 | 17       | 6.47          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 7        | 6.47          |
| (1,1941) | 1:A:7:CYS:H    | 1:A:19:CYS:HB3 | 16       | 6.47          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 7        | 6.47          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 7        | 6.47          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H   | 8        | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1 | 4        | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2 | 4        | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1 | 6        | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2 | 6        | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1 | 18       | 6.47          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2 | 18       | 6.47          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H   | 7        | 6.47          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2 | 9        | 6.47          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2 | 18       | 6.47          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 19       | 6.47          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 20       | 6.47          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 15       | 6.47          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 15       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 16       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 16       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 16       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 16       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 16       | 6.47          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 16       | 6.47          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 1        | 6.47          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 1        | 6.47          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 1        | 6.47          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 9        | 6.47          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 14       | 6.47          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 16       | 6.47          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 13       | 6.46          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 14       | 6.46          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 18       | 6.46          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 18       | 6.46          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 2        | 6.46          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 2        | 6.46          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 2        | 6.46          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3   | 2        | 6.46          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 16       | 6.46          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 16       | 6.46          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 7        | 6.46          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 19       | 6.46          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2  | 7        | 6.46          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3  | 7        | 6.46          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 2        | 6.46          |
| (1,4673) | 1:A:26:CYS:HB3 | 1:A:32:TYR:H    | 16       | 6.46          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2  | 2        | 6.46          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3  | 2        | 6.46          |
| (1,4262) | 1:A:22:GLN:HG3 | 1:A:32:TYR:H    | 10       | 6.46          |
| (1,4250) | 1:A:22:GLN:HG3 | 1:A:25:TYR:HB3  | 17       | 6.46          |
| (1,4238) | 1:A:22:GLN:HB3 | 1:A:33:CYS:H    | 12       | 6.46          |
| (1,4238) | 1:A:22:GLN:HB3 | 1:A:33:CYS:H    | 13       | 6.46          |
| (1,4228) | 1:A:22:GLN:HB3 | 1:A:27:GLY:H    | 16       | 6.46          |
| (1,4226) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HA   | 13       | 6.46          |
| (1,4226) | 1:A:22:GLN:HB3 | 1:A:26:CYS:HA   | 16       | 6.46          |
| (1,4113) | 1:A:22:GLN:H   | 1:A:28:SER:H    | 4        | 6.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4099) | 1:A:21:SER:HG  | 1:A:35:HIS:H   | 16       | 6.46          |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE2 | 1        | 6.46          |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE3 | 1        | 6.46          |
| (1,3976) | 1:A:20:CYS:HB2 | 1:A:34:ALA:H   | 4        | 6.46          |
| (1,3976) | 1:A:20:CYS:HB2 | 1:A:34:ALA:H   | 11       | 6.46          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD1 | 8        | 6.46          |
| (1,3959) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HD2 | 8        | 6.46          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD1 | 2        | 6.46          |
| (1,3875) | 1:A:19:CYS:HB2 | 1:A:25:TYR:HD2 | 2        | 6.46          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD1 | 7        | 6.46          |
| (1,3858) | 1:A:19:CYS:HA  | 1:A:25:TYR:HD2 | 7        | 6.46          |
| (1,3838) | 1:A:19:CYS:H   | 1:A:30:PRO:HD3 | 12       | 6.46          |
| (1,3747) | 1:A:18:LEU:HG  | 1:A:29:GLY:HA3 | 6        | 6.46          |
| (1,3728) | 1:A:18:LEU:HG  | 1:A:20:CYS:HB2 | 12       | 6.46          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB2 | 8        | 6.46          |
| (1,3664) | 1:A:18:LEU:H   | 1:A:35:HIS:HB3 | 8        | 6.46          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1 | 1        | 6.46          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2 | 1        | 6.46          |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3 | 10       | 6.46          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB2 | 3        | 6.46          |
| (1,3524) | 1:A:16:GLY:HA3 | 1:A:20:CYS:HB3 | 3        | 6.46          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2 | 19       | 6.46          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3 | 19       | 6.46          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H   | 1        | 6.46          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H   | 1        | 6.46          |
| (1,3239) | 1:A:14:CYS:HB3 | 1:A:24:GLY:H   | 14       | 6.46          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H   | 18       | 6.46          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H   | 5        | 6.46          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG  | 18       | 6.46          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG  | 20       | 6.46          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 13       | 6.46          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 12       | 6.46          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 13       | 6.46          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 20       | 6.46          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 2        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 2        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 4        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 4        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 6        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 6        | 6.46          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 10       | 6.46          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 10       | 6.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 14       | 6.46          |
| (1,2304) | 1:A:9:PRO:HG2  | 1:A:13:GLY:HA2  | 13       | 6.46          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 9        | 6.46          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 14       | 6.46          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 20       | 6.46          |
| (1,2061) | 1:A:8:GLY:H    | 1:A:27:GLY:H    | 17       | 6.46          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 4        | 6.46          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 4        | 6.46          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 8        | 6.46          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 8        | 6.46          |
| (1,1770) | 1:A:6:GLN:HG3  | 1:A:27:GLY:H    | 20       | 6.46          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 13       | 6.46          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 13       | 6.46          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 5        | 6.46          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 8        | 6.46          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 10       | 6.46          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 7        | 6.46          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 17       | 6.46          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 16       | 6.46          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 16       | 6.46          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 16       | 6.46          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 1        | 6.46          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 16       | 6.46          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 11       | 6.46          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 11       | 6.46          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 10       | 6.46          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 18       | 6.46          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 1        | 6.45          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 9        | 6.45          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 20       | 6.45          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 20       | 6.45          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 2        | 6.45          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 2        | 6.45          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 2        | 6.45          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 2        | 6.45          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 6        | 6.45          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 6        | 6.45          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 14       | 6.45          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 14       | 6.45          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 8        | 6.45          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 8        | 6.45          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 8        | 6.45          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 8        | 6.45          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 12       | 6.45          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 12       | 6.45          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 20       | 6.45          |
| (1,506)  | 1:A:1:SER:HA    | 1:A:4:ASN:HD22 | 1        | 6.45          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA  | 9        | 6.45          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA  | 9        | 6.45          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA  | 9        | 6.45          |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 10       | 6.45          |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1 | 15       | 6.45          |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1 | 15       | 6.45          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2 | 18       | 6.45          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 17       | 6.45          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 17       | 6.45          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 17       | 6.45          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 7        | 6.45          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 17       | 6.45          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 18       | 6.45          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 19       | 6.45          |
| (1,4673) | 1:A:26:CYS:HB3  | 1:A:32:TYR:H   | 20       | 6.45          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 19       | 6.45          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 19       | 6.45          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 19       | 6.45          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 19       | 6.45          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 4        | 6.45          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 4        | 6.45          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 4        | 6.45          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 2        | 6.45          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 2        | 6.45          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 6        | 6.45          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 6        | 6.45          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 6        | 6.45          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 6        | 6.45          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 19       | 6.45          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 19       | 6.45          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 10       | 6.45          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 10       | 6.45          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA2 | 15       | 6.45          |
| (1,4310) | 1:A:22:GLN:HE22 | 1:A:27:GLY:HA3 | 15       | 6.45          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 5        | 6.45          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 5        | 6.45          |
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD2 | 17       | 6.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4287) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HD3  | 17       | 6.45          |
| (1,4284) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HA   | 17       | 6.45          |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA   | 12       | 6.45          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 5        | 6.45          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 18       | 6.45          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 19       | 6.45          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3  | 14       | 6.45          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2  | 14       | 6.45          |
| (1,4099) | 1:A:21:SER:HG   | 1:A:35:HIS:H    | 20       | 6.45          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 8        | 6.45          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA   | 17       | 6.45          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 12       | 6.45          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1  | 10       | 6.45          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2  | 10       | 6.45          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 13       | 6.45          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 4        | 6.45          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2  | 20       | 6.45          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3  | 20       | 6.45          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 2        | 6.45          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3  | 4        | 6.45          |
| (1,3772) | 1:A:18:LEU:HD11 | 1:A:23:TYR:HB2  | 14       | 6.45          |
| (1,3772) | 1:A:18:LEU:HD12 | 1:A:23:TYR:HB2  | 14       | 6.45          |
| (1,3772) | 1:A:18:LEU:HD13 | 1:A:23:TYR:HB2  | 14       | 6.45          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3  | 5        | 6.45          |
| (1,3747) | 1:A:18:LEU:HG   | 1:A:29:GLY:HA3  | 17       | 6.45          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 5        | 6.45          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 12       | 6.45          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 12       | 6.45          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3  | 9        | 6.45          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H    | 15       | 6.45          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 7        | 6.45          |
| (1,3176) | 1:A:14:CYS:H    | 1:A:21:SER:HG   | 19       | 6.45          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 16       | 6.45          |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H    | 14       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 12       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 12       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 12       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 12       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 12       | 6.45          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 12       | 6.45          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 12       | 6.45          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 12       | 6.45          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 9        | 6.45          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 18       | 6.45          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H   | 19       | 6.45          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H   | 15       | 6.45          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H   | 15       | 6.45          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3 | 3        | 6.45          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 3        | 6.45          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 15       | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 7        | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 8        | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 12       | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 16       | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 18       | 6.45          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3 | 19       | 6.45          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 11       | 6.45          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 11       | 6.45          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 17       | 6.45          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 17       | 6.45          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 10       | 6.45          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H   | 2        | 6.45          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H   | 15       | 6.45          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H   | 20       | 6.45          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 8        | 6.45          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 17       | 6.45          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 10       | 6.45          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 12       | 6.45          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 17       | 6.45          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 2        | 6.45          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA   | 12       | 6.44          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA   | 16       | 6.44          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 17       | 6.44          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H   | 4        | 6.44          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H   | 9        | 6.44          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 13       | 6.44          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 13       | 6.44          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2  | 16       | 6.44          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3  | 16       | 6.44          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1 | 17       | 6.44          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2 | 17       | 6.44          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1 | 17       | 6.44          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2 | 17       | 6.44          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1 | 12       | 6.44          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 12       | 6.44          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 3        | 6.44          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 3        | 6.44          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 3        | 6.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 18       | 6.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 18       | 6.44          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 18       | 6.44          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 13       | 6.44          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 8        | 6.44          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 8        | 6.44          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 13       | 6.44          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 13       | 6.44          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 13       | 6.44          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H   | 1        | 6.44          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H   | 1        | 6.44          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 5        | 6.44          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 5        | 6.44          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 20       | 6.44          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 16       | 6.44          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 5        | 6.44          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 1        | 6.44          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 3        | 6.44          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 11       | 6.44          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 11       | 6.44          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 2        | 6.44          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 11       | 6.44          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 20       | 6.44          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 8        | 6.44          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 12       | 6.44          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 6        | 6.44          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE1 | 2        | 6.44          |
| (1,3993) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HE2 | 2        | 6.44          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 1        | 6.44          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 2        | 6.44          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 18       | 6.44          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 20       | 6.44          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 16       | 6.44          |
| (1,3972) | 1:A:20:CYS:HB2  | 1:A:32:TYR:H   | 20       | 6.44          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 14       | 6.44          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 6        | 6.44          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 6        | 6.44          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 8        | 6.44          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H    | 16       | 6.44          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB1  | 20       | 6.44          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2  | 20       | 6.44          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3  | 20       | 6.44          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB2  | 8        | 6.44          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB3  | 8        | 6.44          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB2  | 20       | 6.44          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB3  | 20       | 6.44          |
| (1,3432) | 1:A:15:ARG:HE  | 1:A:27:GLY:H    | 1        | 6.44          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H    | 11       | 6.44          |
| (1,3222) | 1:A:14:CYS:HB2 | 1:A:34:ALA:H    | 7        | 6.44          |
| (1,3176) | 1:A:14:CYS:H   | 1:A:21:SER:HG   | 16       | 6.44          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 20       | 6.44          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2  | 7        | 6.44          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3  | 7        | 6.44          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 2        | 6.44          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 2        | 6.44          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 10       | 6.44          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 10       | 6.44          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 17       | 6.44          |
| (1,2121) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HB3  | 17       | 6.44          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 2        | 6.44          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 3        | 6.44          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 4        | 6.44          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 11       | 6.44          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 8        | 6.44          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 8        | 6.44          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 2        | 6.44          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 10       | 6.44          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 1        | 6.44          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 1        | 6.44          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 8        | 6.44          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 8        | 6.44          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 8        | 6.44          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 13       | 6.44          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 5        | 6.44          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 9        | 6.44          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 15       | 6.44          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 5        | 6.44          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 17       | 6.44          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 17       | 6.44          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 5        | 6.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA   | 7        | 6.43          |
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA   | 8        | 6.43          |
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA   | 20       | 6.43          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB2  | 19       | 6.43          |
| (1,605)  | 1:A:2:GLY:H     | 1:A:9:PRO:HB3  | 19       | 6.43          |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3 | 6        | 6.43          |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3 | 6        | 6.43          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 2        | 6.43          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 2        | 6.43          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 2        | 6.43          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 2        | 6.43          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 8        | 6.43          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 4        | 6.43          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 19       | 6.43          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 6        | 6.43          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 18       | 6.43          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 2        | 6.43          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 2        | 6.43          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 2        | 6.43          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 7        | 6.43          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 7        | 6.43          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 7        | 6.43          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2 | 7        | 6.43          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 17       | 6.43          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 17       | 6.43          |
| (1,4648) | 1:A:26:CYS:HA   | 1:A:35:HIS:H   | 20       | 6.43          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 12       | 6.43          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 12       | 6.43          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 12       | 6.43          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 12       | 6.43          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB1 | 15       | 6.43          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB2 | 15       | 6.43          |
| (1,4527) | 1:A:25:TYR:H    | 1:A:34:ALA:HB3 | 15       | 6.43          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 3        | 6.43          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 1        | 6.43          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 1        | 6.43          |
| (1,4315) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HA  | 15       | 6.43          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 19       | 6.43          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 19       | 6.43          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 19       | 6.43          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 2        | 6.43          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 5        | 6.43          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4165) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HB3  | 4        | 6.43          |
| (1,4165) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HB3  | 18       | 6.43          |
| (1,4144) | 1:A:22:GLN:HA  | 1:A:27:GLY:HA3  | 9        | 6.43          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2  | 8        | 6.43          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 15       | 6.43          |
| (1,3976) | 1:A:20:CYS:HB2 | 1:A:34:ALA:H    | 17       | 6.43          |
| (1,3976) | 1:A:20:CYS:HB2 | 1:A:34:ALA:H    | 19       | 6.43          |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H    | 18       | 6.43          |
| (1,3972) | 1:A:20:CYS:HB2 | 1:A:32:TYR:H    | 19       | 6.43          |
| (1,3946) | 1:A:20:CYS:H   | 1:A:35:HIS:H    | 2        | 6.43          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3  | 2        | 6.43          |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB2  | 17       | 6.43          |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB3  | 17       | 6.43          |
| (1,3728) | 1:A:18:LEU:HG  | 1:A:20:CYS:HB2  | 16       | 6.43          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1  | 11       | 6.43          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2  | 11       | 6.43          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1  | 15       | 6.43          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2  | 15       | 6.43          |
| (1,3614) | 1:A:17:GLY:HA2 | 1:A:34:ALA:H    | 19       | 6.43          |
| (1,3472) | 1:A:16:GLY:H   | 1:A:26:CYS:HA   | 14       | 6.43          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H    | 17       | 6.43          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 13       | 6.43          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 7        | 6.43          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 8        | 6.43          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 14       | 6.43          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 1        | 6.43          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 11       | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 3        | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 3        | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 3        | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 3        | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 3        | 6.43          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 3        | 6.43          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H    | 7        | 6.43          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H    | 16       | 6.43          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 5        | 6.43          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 5        | 6.43          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 11       | 6.43          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 11       | 6.43          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE21 | 19       | 6.43          |
| (1,2117) | 1:A:8:GLY:HA3  | 1:A:22:GLN:HE22 | 19       | 6.43          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 16       | 6.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 19       | 6.43          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 3        | 6.43          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 13       | 6.43          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 13       | 6.43          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1 | 15       | 6.43          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2 | 15       | 6.43          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H   | 6        | 6.43          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 6        | 6.43          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 5        | 6.43          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 6        | 6.43          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 16       | 6.43          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 4        | 6.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 11       | 6.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 11       | 6.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 13       | 6.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 13       | 6.43          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H   | 19       | 6.43          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 6        | 6.43          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 13       | 6.43          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 13       | 6.43          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 19       | 6.43          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA   | 17       | 6.42          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG2 | 11       | 6.42          |
| (1,724)  | 1:A:2:GLY:HA3  | 1:A:15:ARG:HG3 | 11       | 6.42          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H   | 3        | 6.42          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2 | 1        | 6.42          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3 | 1        | 6.42          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2  | 7        | 6.42          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3  | 7        | 6.42          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2  | 8        | 6.42          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3  | 8        | 6.42          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 7        | 6.42          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 7        | 6.42          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE  | 18       | 6.42          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 9        | 6.42          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 17       | 6.42          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 20       | 6.42          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 20       | 6.42          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 14       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1 | 4        | 6.42          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2 | 4        | 6.42          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3 | 4        | 6.42          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1  | 13       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2  | 13       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3  | 13       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1  | 15       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2  | 15       | 6.42          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3  | 15       | 6.42          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 6.42          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 10       | 6.42          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 10       | 6.42          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA   | 5        | 6.42          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG2  | 20       | 6.42          |
| (1,4550) | 1:A:25:TYR:HB3  | 1:A:31:LYS:HG3  | 20       | 6.42          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 5        | 6.42          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 10       | 6.42          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 19       | 6.42          |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H    | 20       | 6.42          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2  | 5        | 6.42          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3  | 5        | 6.42          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2  | 11       | 6.42          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3  | 11       | 6.42          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 16       | 6.42          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 16       | 6.42          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H    | 6        | 6.42          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H    | 14       | 6.42          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 14       | 6.42          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 14       | 6.42          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2  | 3        | 6.42          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 4        | 6.42          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 4        | 6.42          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H    | 8        | 6.42          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1  | 3        | 6.42          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2  | 3        | 6.42          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 16       | 6.42          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 3        | 6.42          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 6        | 6.42          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 6        | 6.42          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 6        | 6.42          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2  | 11       | 6.42          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3  | 11       | 6.42          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2  | 15       | 6.42          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3  | 15       | 6.42          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 11       | 6.42          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 11       | 6.42          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 11       | 6.42          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 3        | 6.42          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2  | 3        | 6.42          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2  | 14       | 6.42          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2  | 18       | 6.42          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2  | 19       | 6.42          |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3  | 2        | 6.42          |
| (1,3614) | 1:A:17:GLY:HA2  | 1:A:34:ALA:H    | 18       | 6.42          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 10       | 6.42          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 10       | 6.42          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 18       | 6.42          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 19       | 6.42          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3  | 12       | 6.42          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H    | 12       | 6.42          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H    | 15       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 4        | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 10       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 10       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 10       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 10       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 10       | 6.42          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 10       | 6.42          |
| (1,2864) | 1:A:11:TRP:HE1  | 1:A:24:GLY:H    | 17       | 6.42          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3  | 9        | 6.42          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3  | 9        | 6.42          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3  | 17       | 6.42          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3  | 17       | 6.42          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3  | 20       | 6.42          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3  | 20       | 6.42          |
| (1,2195) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE3  | 1        | 6.42          |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE21 | 11       | 6.42          |
| (1,2117) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HE22 | 11       | 6.42          |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H    | 7        | 6.42          |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H    | 18       | 6.42          |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA   | 4        | 6.42          |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA   | 6        | 6.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 17       | 6.42          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 4        | 6.42          |
| (1,1704) | 1:A:6:GLN:HG2  | 1:A:12:GLY:HA3  | 17       | 6.42          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 12       | 6.42          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 12       | 6.42          |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H    | 9        | 6.42          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 9        | 6.42          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 10       | 6.42          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 3        | 6.42          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 5        | 6.42          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 6        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 8        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 8        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 8        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 8        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 8        | 6.42          |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 8        | 6.42          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 5        | 6.42          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 9        | 6.42          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 7        | 6.42          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 14       | 6.42          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 1        | 6.41          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 15       | 6.41          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 18       | 6.41          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 19       | 6.41          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 19       | 6.41          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 19       | 6.41          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 19       | 6.41          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3   | 19       | 6.41          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 18       | 6.41          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 18       | 6.41          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 18       | 6.41          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1  | 14       | 6.41          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2  | 14       | 6.41          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3  | 14       | 6.41          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 8        | 6.41          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 8        | 6.41          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 8        | 6.41          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 19       | 6.41          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H    | 18       | 6.41          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB1  | 2        | 6.41          |
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB2  | 2        | 6.41          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4527) | 1:A:25:TYR:H   | 1:A:34:ALA:HB3  | 2        | 6.41          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 20       | 6.41          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 20       | 6.41          |
| (1,4354) | 1:A:23:TYR:H   | 1:A:33:CYS:H    | 12       | 6.41          |
| (1,4208) | 1:A:22:GLN:HG2 | 1:A:34:ALA:HA   | 7        | 6.41          |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H    | 20       | 6.41          |
| (1,4153) | 1:A:22:GLN:HA  | 1:A:34:ALA:H    | 1        | 6.41          |
| (1,4153) | 1:A:22:GLN:HA  | 1:A:34:ALA:H    | 14       | 6.41          |
| (1,4144) | 1:A:22:GLN:HA  | 1:A:27:GLY:HA3  | 16       | 6.41          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2  | 6        | 6.41          |
| (1,4085) | 1:A:21:SER:HG  | 1:A:31:LYS:HA   | 13       | 6.41          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE21 | 1        | 6.41          |
| (1,3916) | 1:A:20:CYS:H   | 1:A:22:GLN:HE22 | 1        | 6.41          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ1  | 3        | 6.41          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ2  | 3        | 6.41          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ3  | 3        | 6.41          |
| (1,3838) | 1:A:19:CYS:H   | 1:A:30:PRO:HD3  | 6        | 6.41          |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB2  | 1        | 6.41          |
| (1,3836) | 1:A:19:CYS:H   | 1:A:30:PRO:HB3  | 1        | 6.41          |
| (1,3728) | 1:A:18:LEU:HG  | 1:A:20:CYS:HB2  | 7        | 6.41          |
| (1,3728) | 1:A:18:LEU:HG  | 1:A:20:CYS:HB2  | 15       | 6.41          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H    | 2        | 6.41          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H    | 4        | 6.41          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H    | 17       | 6.41          |
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 1        | 6.41          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 18       | 6.41          |
| (1,3069) | 1:A:12:GLY:HA3 | 1:A:26:CYS:HB3  | 19       | 6.41          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 2        | 6.41          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 10       | 6.41          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 6        | 6.41          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 6        | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 7        | 6.41          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 7        | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 8        | 6.41          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 8        | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 12       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 12       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 14       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 14       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 18       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 18       | 6.41          |
| (1,2425) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HZ3  | 19       | 6.41          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3  | 19       | 6.41          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 15       | 6.41          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 16       | 6.41          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 16       | 6.41          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 14       | 6.41          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 14       | 6.41          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 14       | 6.41          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 8        | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 1        | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 1        | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 2        | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 2        | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE1  | 11       | 6.41          |
| (1,1781) | 1:A:6:GLN:HG3  | 1:A:32:TYR:HE2  | 11       | 6.41          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 5        | 6.41          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 10       | 6.41          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 5        | 6.41          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 14       | 6.41          |
| (1,1461) | 1:A:5:GLY:HA2  | 1:A:28:SER:H    | 10       | 6.41          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 2        | 6.41          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 8        | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 18       | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 18       | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 18       | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 19       | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 19       | 6.41          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 19       | 6.41          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 12       | 6.41          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 1        | 6.41          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 5        | 6.41          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 7        | 6.41          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 10       | 6.41          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 13       | 6.4           |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 10       | 6.4           |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 2        | 6.4           |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 2        | 6.4           |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 12       | 6.4           |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 12       | 6.4           |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2   | 18       | 6.4           |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3   | 18       | 6.4           |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 10       | 6.4           |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 10       | 6.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 5        | 6.4           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 10       | 6.4           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 10       | 6.4           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 10       | 6.4           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 12       | 6.4           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 12       | 6.4           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 12       | 6.4           |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 4        | 6.4           |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 4        | 6.4           |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 4        | 6.4           |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 10       | 6.4           |
| (1,4539) | 1:A:25:TYR:HB2  | 1:A:32:TYR:H   | 16       | 6.4           |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 4        | 6.4           |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 4        | 6.4           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 5        | 6.4           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 5        | 6.4           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 7        | 6.4           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 7        | 6.4           |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 15       | 6.4           |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 15       | 6.4           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB2 | 15       | 6.4           |
| (1,4331) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HB3 | 15       | 6.4           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 14       | 6.4           |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 14       | 6.4           |
| (1,4226) | 1:A:22:GLN:HB3  | 1:A:26:CYS:HA  | 3        | 6.4           |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 5        | 6.4           |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 15       | 6.4           |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 17       | 6.4           |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 8        | 6.4           |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 5        | 6.4           |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 13       | 6.4           |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 15       | 6.4           |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 13       | 6.4           |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 17       | 6.4           |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 13       | 6.4           |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 10       | 6.4           |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 15       | 6.4           |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 3        | 6.4           |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 5        | 6.4           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 7        | 6.4           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 7        | 6.4           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 9        | 6.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 9        | 6.4           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 13       | 6.4           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 13       | 6.4           |
| (1,3811) | 1:A:18:LEU:HD21 | 1:A:31:LYS:HA  | 14       | 6.4           |
| (1,3811) | 1:A:18:LEU:HD22 | 1:A:31:LYS:HA  | 14       | 6.4           |
| (1,3811) | 1:A:18:LEU:HD23 | 1:A:31:LYS:HA  | 14       | 6.4           |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 20       | 6.4           |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 3        | 6.4           |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 10       | 6.4           |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 12       | 6.4           |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 12       | 6.4           |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 12       | 6.4           |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 5        | 6.4           |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 5        | 6.4           |
| (1,3222) | 1:A:14:CYS:HB2  | 1:A:34:ALA:H   | 16       | 6.4           |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H   | 13       | 6.4           |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 1        | 6.4           |
| (1,3054) | 1:A:12:GLY:HA3  | 1:A:20:CYS:HB3 | 17       | 6.4           |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H   | 5        | 6.4           |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H   | 9        | 6.4           |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2 | 19       | 6.4           |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3 | 19       | 6.4           |
| (1,2444) | 1:A:9:PRO:HD2   | 1:A:26:CYS:H   | 13       | 6.4           |
| (1,2444) | 1:A:9:PRO:HD3   | 1:A:26:CYS:H   | 13       | 6.4           |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3 | 16       | 6.4           |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3 | 16       | 6.4           |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD1 | 9        | 6.4           |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD2 | 9        | 6.4           |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB1 | 13       | 6.4           |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB2 | 13       | 6.4           |
| (1,2018) | 1:A:7:CYS:HB2   | 1:A:34:ALA:HB3 | 13       | 6.4           |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB1 | 13       | 6.4           |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB2 | 13       | 6.4           |
| (1,2018) | 1:A:7:CYS:HB3   | 1:A:34:ALA:HB3 | 13       | 6.4           |
| (1,1801) | 1:A:6:GLN:HE21  | 1:A:12:GLY:H   | 12       | 6.4           |
| (1,1797) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HD2  | 2        | 6.4           |
| (1,1797) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HD3  | 2        | 6.4           |
| (1,1792) | 1:A:6:GLN:HE21  | 1:A:8:GLY:H    | 4        | 6.4           |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA  | 3        | 6.4           |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA  | 10       | 6.4           |
| (1,1713) | 1:A:6:GLN:HG2   | 1:A:21:SER:H   | 2        | 6.4           |
| (1,1713) | 1:A:6:GLN:HG2   | 1:A:21:SER:H   | 3        | 6.4           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 10       | 6.4           |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 5        | 6.4           |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 5        | 6.4           |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 6        | 6.4           |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 6        | 6.4           |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 16       | 6.4           |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 20       | 6.4           |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 2        | 6.4           |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 5        | 6.4           |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 11       | 6.4           |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 9        | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 18       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD11 | 19       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD12 | 19       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD13 | 19       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD21 | 19       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD22 | 19       | 6.4           |
| (1,1346) | 1:A:4:ASN:HD22 | 1:A:18:LEU:HD23 | 19       | 6.4           |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 6        | 6.4           |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 18       | 6.4           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB2  | 14       | 6.4           |
| (1,1064) | 1:A:4:ASN:H    | 1:A:14:CYS:HB3  | 14       | 6.4           |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 11       | 6.39          |
| (1,975)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HB3  | 2        | 6.39          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 10       | 6.39          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 10       | 6.39          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 11       | 6.39          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 3        | 6.39          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 1        | 6.39          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 1        | 6.39          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 17       | 6.39          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 17       | 6.39          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2  | 11       | 6.39          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 19       | 6.39          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 19       | 6.39          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 19       | 6.39          |
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG2  | 10       | 6.39          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4749) | 1:A:28:SER:HB3 | 1:A:31:LYS:HG3 | 10       | 6.39          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 7        | 6.39          |
| (1,4680) | 1:A:27:GLY:H   | 1:A:31:LYS:HA  | 9        | 6.39          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H   | 17       | 6.39          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 2        | 6.39          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 2        | 6.39          |
| (1,4354) | 1:A:23:TYR:H   | 1:A:33:CYS:H   | 5        | 6.39          |
| (1,4354) | 1:A:23:TYR:H   | 1:A:33:CYS:H   | 8        | 6.39          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1 | 3        | 6.39          |
| (1,4259) | 1:A:22:GLN:HG3 | 1:A:29:GLY:HA2 | 17       | 6.39          |
| (1,4259) | 1:A:22:GLN:HG3 | 1:A:29:GLY:HA3 | 17       | 6.39          |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H   | 6        | 6.39          |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H   | 9        | 6.39          |
| (1,4179) | 1:A:22:GLN:HB2 | 1:A:27:GLY:H   | 12       | 6.39          |
| (1,4173) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HA  | 19       | 6.39          |
| (1,4165) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HB3 | 9        | 6.39          |
| (1,4151) | 1:A:22:GLN:HA  | 1:A:33:CYS:H   | 10       | 6.39          |
| (1,4144) | 1:A:22:GLN:HA  | 1:A:27:GLY:HA3 | 7        | 6.39          |
| (1,4144) | 1:A:22:GLN:HA  | 1:A:27:GLY:HA3 | 12       | 6.39          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2 | 2        | 6.39          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2 | 18       | 6.39          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2 | 19       | 6.39          |
| (1,4128) | 1:A:22:GLN:H   | 1:A:33:CYS:HB2 | 20       | 6.39          |
| (1,4113) | 1:A:22:GLN:H   | 1:A:28:SER:H   | 16       | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB1 | 3        | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB2 | 3        | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB3 | 3        | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB1 | 6        | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB2 | 6        | 6.39          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB3 | 6        | 6.39          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3 | 5        | 6.39          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3 | 10       | 6.39          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3 | 13       | 6.39          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H   | 2        | 6.39          |
| (1,3730) | 1:A:18:LEU:HG  | 1:A:21:SER:HB3 | 15       | 6.39          |
| (1,3728) | 1:A:18:LEU:HG  | 1:A:20:CYS:HB2 | 9        | 6.39          |
| (1,3678) | 1:A:18:LEU:HB2 | 1:A:21:SER:HG  | 11       | 6.39          |
| (1,3640) | 1:A:17:GLY:HA3 | 1:A:33:CYS:H   | 13       | 6.39          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 8        | 6.39          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 18       | 6.39          |
| (1,3622) | 1:A:17:GLY:HA3 | 1:A:20:CYS:H   | 19       | 6.39          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 14       | 6.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 13       | 6.39          |
| (1,3218) | 1:A:14:CYS:HB2 | 1:A:32:TYR:H    | 12       | 6.39          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 7        | 6.39          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 20       | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 6        | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 6        | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 6        | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 6        | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 6        | 6.39          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 6        | 6.39          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 3        | 6.39          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 3        | 6.39          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 4        | 6.39          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 4        | 6.39          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 14       | 6.39          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 14       | 6.39          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB2  | 17       | 6.39          |
| (1,2053) | 1:A:8:GLY:H    | 1:A:23:TYR:HB3  | 17       | 6.39          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 15       | 6.39          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 15       | 6.39          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 14       | 6.39          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 6        | 6.39          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 6        | 6.39          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 10       | 6.39          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 10       | 6.39          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 2        | 6.39          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 14       | 6.39          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 9        | 6.39          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 9        | 6.39          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 3        | 6.39          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 1        | 6.39          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 13       | 6.39          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 2        | 6.39          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 2        | 6.39          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 10       | 6.39          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 10       | 6.39          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H    | 19       | 6.39          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 3        | 6.39          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 6        | 6.39          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 18       | 6.39          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 10       | 6.39          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 14       | 6.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1363) | 1:A:4:ASN:HD22  | 1:A:26:CYS:H   | 1        | 6.39          |
| (1,1363) | 1:A:4:ASN:HD22  | 1:A:26:CYS:H   | 15       | 6.39          |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA  | 11       | 6.39          |
| (1,933)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HB2 | 5        | 6.38          |
| (1,933)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HB2 | 5        | 6.38          |
| (1,933)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HB2 | 13       | 6.38          |
| (1,933)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HB2 | 13       | 6.38          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD2 | 1        | 6.38          |
| (1,848)  | 1:A:3:PRO:HB3   | 1:A:15:ARG:HD3 | 1        | 6.38          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 11       | 6.38          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 13       | 6.38          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 15       | 6.38          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 16       | 6.38          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 20       | 6.38          |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3 | 16       | 6.38          |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3 | 16       | 6.38          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 17       | 6.38          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 17       | 6.38          |
| (1,518)  | 1:A:1:SER:HA    | 1:A:18:LEU:HB2 | 9        | 6.38          |
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H   | 1        | 6.38          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H   | 1        | 6.38          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 9        | 6.38          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 9        | 6.38          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 20       | 6.38          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 20       | 6.38          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2 | 17       | 6.38          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 17       | 6.38          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 17       | 6.38          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 17       | 6.38          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 8        | 6.38          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 8        | 6.38          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 6        | 6.38          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 6        | 6.38          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 6        | 6.38          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 6        | 6.38          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 7        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 3        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 3        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 4        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 4        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 6        | 6.38          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 6        | 6.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 19       | 6.38          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 19       | 6.38          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 20       | 6.38          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 16       | 6.38          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 19       | 6.38          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 1        | 6.38          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 12       | 6.38          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 12       | 6.38          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 4        | 6.38          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 7        | 6.38          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 9        | 6.38          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 11       | 6.38          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 3        | 6.38          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 3        | 6.38          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 10       | 6.38          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 10       | 6.38          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 10       | 6.38          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 2        | 6.38          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 9        | 6.38          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 9        | 6.38          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 9        | 6.38          |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 7        | 6.38          |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 20       | 6.38          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 19       | 6.38          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 19       | 6.38          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 19       | 6.38          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 11       | 6.38          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 12       | 6.38          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 12       | 6.38          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 6        | 6.38          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 14       | 6.38          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG  | 11       | 6.38          |
| (1,3068) | 1:A:12:GLY:HA3  | 1:A:26:CYS:H   | 17       | 6.38          |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H   | 3        | 6.38          |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H   | 18       | 6.38          |
| (1,2444) | 1:A:9:PRO:HD2   | 1:A:26:CYS:H   | 11       | 6.38          |
| (1,2444) | 1:A:9:PRO:HD3   | 1:A:26:CYS:H   | 11       | 6.38          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3 | 1        | 6.38          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3 | 1        | 6.38          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3 | 11       | 6.38          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3 | 11       | 6.38          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3 | 15       | 6.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2425) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HZ3 | 15       | 6.38          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H   | 1        | 6.38          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1 | 12       | 6.38          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2 | 12       | 6.38          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3 | 12       | 6.38          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1 | 12       | 6.38          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2 | 12       | 6.38          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3 | 12       | 6.38          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 20       | 6.38          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2  | 5        | 6.38          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3  | 5        | 6.38          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA  | 5        | 6.38          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 2        | 6.38          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H   | 7        | 6.38          |
| (1,1473) | 1:A:5:GLY:HA3  | 1:A:13:GLY:H   | 18       | 6.38          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG  | 19       | 6.38          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 2        | 6.38          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1 | 6        | 6.38          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1 | 10       | 6.38          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 17       | 6.38          |
| (1,1190) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HD1 | 13       | 6.38          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 19       | 6.38          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 12       | 6.38          |
| (1,898)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HD1 | 9        | 6.37          |
| (1,898)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HD1 | 9        | 6.37          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H    | 1        | 6.37          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H    | 1        | 6.37          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 1        | 6.37          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 7        | 6.37          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 19       | 6.37          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H   | 14       | 6.37          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB2 | 15       | 6.37          |
| (1,618)  | 1:A:2:GLY:H    | 1:A:15:ARG:HB3 | 15       | 6.37          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 2        | 6.37          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 2        | 6.37          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 13       | 6.37          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 13       | 6.37          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1 | 2        | 6.37          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2 | 2        | 6.37          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2 | 6        | 6.37          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3 | 6        | 6.37          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 2        | 6.37          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 2        | 6.37          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 9        | 6.37          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 9        | 6.37          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 9        | 6.37          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 13       | 6.37          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 15       | 6.37          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3 | 16       | 6.37          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 10       | 6.37          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 10       | 6.37          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 13       | 6.37          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 13       | 6.37          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 16       | 6.37          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 16       | 6.37          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 1        | 6.37          |
| (1,4260) | 1:A:22:GLN:HG3  | 1:A:30:PRO:HA  | 17       | 6.37          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 7        | 6.37          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 7        | 6.37          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 11       | 6.37          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 18       | 6.37          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 19       | 6.37          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 16       | 6.37          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 12       | 6.37          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 12       | 6.37          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 15       | 6.37          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 7        | 6.37          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 7        | 6.37          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 6        | 6.37          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 19       | 6.37          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 8        | 6.37          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 8        | 6.37          |
| (1,3774) | 1:A:18:LEU:HD11 | 1:A:24:GLY:H   | 14       | 6.37          |
| (1,3774) | 1:A:18:LEU:HD12 | 1:A:24:GLY:H   | 14       | 6.37          |
| (1,3774) | 1:A:18:LEU:HD13 | 1:A:24:GLY:H   | 14       | 6.37          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 1        | 6.37          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 7        | 6.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 18       | 6.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 18       | 6.37          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 18       | 6.37          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 8        | 6.37          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 15       | 6.37          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 5        | 6.37          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 17       | 6.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 1        | 6.37          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 11       | 6.37          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 11       | 6.37          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 6        | 6.37          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 7        | 6.37          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 16       | 6.37          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 19       | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 2        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 5        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 8        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 8        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 8        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 8        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 8        | 6.37          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 8        | 6.37          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 1        | 6.37          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 1        | 6.37          |
| (1,2371) | 1:A:9:PRO:HG3  | 1:A:13:GLY:H    | 13       | 6.37          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 16       | 6.37          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 16       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 15       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 15       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 15       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 15       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 15       | 6.37          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 15       | 6.37          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 13       | 6.37          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 13       | 6.37          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 14       | 6.37          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 19       | 6.37          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 19       | 6.37          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 4        | 6.37          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1652) | 1:A:6:GLN:HB3   | 1:A:23:TYR:H    | 12       | 6.37          |
| (1,1596) | 1:A:6:GLN:HB2   | 1:A:20:CYS:HB2  | 15       | 6.37          |
| (1,1425) | 1:A:5:GLY:H     | 1:A:21:SER:H    | 1        | 6.37          |
| (1,1410) | 1:A:5:GLY:H     | 1:A:12:GLY:HA3  | 4        | 6.37          |
| (1,1407) | 1:A:5:GLY:H     | 1:A:11:TRP:HE1  | 3        | 6.37          |
| (1,1407) | 1:A:5:GLY:H     | 1:A:11:TRP:HE1  | 5        | 6.37          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB2  | 9        | 6.37          |
| (1,1365) | 1:A:4:ASN:HD22  | 1:A:26:CYS:HB3  | 9        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD11 | 7        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD12 | 7        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD13 | 7        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD21 | 7        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD22 | 7        | 6.37          |
| (1,1346) | 1:A:4:ASN:HD22  | 1:A:18:LEU:HD23 | 7        | 6.37          |
| (1,1158) | 1:A:4:ASN:HB2   | 1:A:24:GLY:HA2  | 16       | 6.37          |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA   | 1        | 6.37          |
| (1,999)  | 1:A:3:PRO:HD3   | 1:A:7:CYS:H     | 16       | 6.36          |
| (1,999)  | 1:A:3:PRO:HD3   | 1:A:7:CYS:H     | 20       | 6.36          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H     | 11       | 6.36          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H     | 11       | 6.36          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H     | 15       | 6.36          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H     | 15       | 6.36          |
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA    | 4        | 6.36          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H     | 8        | 6.36          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H     | 9        | 6.36          |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H     | 18       | 6.36          |
| (1,720)  | 1:A:2:GLY:HA3   | 1:A:13:GLY:H    | 5        | 6.36          |
| (1,578)  | 1:A:1:SER:HB2   | 1:A:27:GLY:HA3  | 12       | 6.36          |
| (1,578)  | 1:A:1:SER:HB3   | 1:A:27:GLY:HA3  | 12       | 6.36          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 15       | 6.36          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 15       | 6.36          |
| (1,4718) | 1:A:27:GLY:HA3  | 1:A:35:HIS:H    | 20       | 6.36          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 18       | 6.36          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 19       | 6.36          |
| (1,4608) | 1:A:26:CYS:H    | 1:A:28:SER:HB3  | 20       | 6.36          |
| (1,4417) | 1:A:23:TYR:HE1  | 1:A:27:GLY:H    | 20       | 6.36          |
| (1,4417) | 1:A:23:TYR:HE2  | 1:A:27:GLY:H    | 20       | 6.36          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H    | 13       | 6.36          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H    | 15       | 6.36          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 12       | 6.36          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 7        | 6.36          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 7        | 6.36          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 9        | 6.36          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 9        | 6.36          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 13       | 6.36          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 20       | 6.36          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 17       | 6.36          |
| (1,4144) | 1:A:22:GLN:HA   | 1:A:27:GLY:HA3 | 20       | 6.36          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 1        | 6.36          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 5        | 6.36          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 5        | 6.36          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 6        | 6.36          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 6        | 6.36          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 7        | 6.36          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 12       | 6.36          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 7        | 6.36          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG2 | 20       | 6.36          |
| (1,3936) | 1:A:20:CYS:H    | 1:A:31:LYS:HG3 | 20       | 6.36          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 14       | 6.36          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 14       | 6.36          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 15       | 6.36          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 15       | 6.36          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 15       | 6.36          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 6        | 6.36          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 6        | 6.36          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 6        | 6.36          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 11       | 6.36          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 11       | 6.36          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 11       | 6.36          |
| (1,3740) | 1:A:18:LEU:HG   | 1:A:25:TYR:HB3 | 14       | 6.36          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 2        | 6.36          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3 | 2        | 6.36          |
| (1,3622) | 1:A:17:GLY:HA3  | 1:A:20:CYS:H   | 9        | 6.36          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 11       | 6.36          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 7        | 6.36          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 7        | 6.36          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 12       | 6.36          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 8        | 6.36          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 3        | 6.36          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 3        | 6.36          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H   | 1        | 6.36          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 15       | 6.36          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 16       | 6.36          |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H   | 4        | 6.36          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 8        | 6.36          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB2  | 17       | 6.36          |
| (1,2866) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HB3  | 17       | 6.36          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 1        | 6.36          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 12       | 6.36          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 11       | 6.36          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 3        | 6.36          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 3        | 6.36          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 4        | 6.36          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 13       | 6.36          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 9        | 6.36          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 5        | 6.36          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 7        | 6.36          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 7        | 6.36          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 7        | 6.36          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 15       | 6.36          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 2        | 6.36          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H    | 13       | 6.36          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 10       | 6.36          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 11       | 6.36          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 7        | 6.35          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 13       | 6.35          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 13       | 6.35          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H     | 12       | 6.35          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 6        | 6.35          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2  | 6        | 6.35          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3  | 6        | 6.35          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1  | 5        | 6.35          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2  | 5        | 6.35          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1  | 5        | 6.35          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2  | 5        | 6.35          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 18       | 6.35          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 18       | 6.35          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 19       | 6.35          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2  | 7        | 6.35          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3  | 7        | 6.35          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 12       | 6.35          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 12       | 6.35          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 12       | 6.35          |
| (1,4680) | 1:A:27:GLY:H   | 1:A:31:LYS:HA   | 12       | 6.35          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2  | 3        | 6.35          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2  | 3        | 6.35          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 3        | 6.35          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 3        | 6.35          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 5        | 6.35          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 5        | 6.35          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 9        | 6.35          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 9        | 6.35          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 18       | 6.35          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 18       | 6.35          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 11       | 6.35          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 11       | 6.35          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 2        | 6.35          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 9        | 6.35          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 16       | 6.35          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 16       | 6.35          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 18       | 6.35          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 18       | 6.35          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 6        | 6.35          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 8        | 6.35          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 8        | 6.35          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 18       | 6.35          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 11       | 6.35          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 13       | 6.35          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 18       | 6.35          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 19       | 6.35          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 17       | 6.35          |
| (1,4042) | 1:A:21:SER:H    | 1:A:34:ALA:HA  | 16       | 6.35          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 10       | 6.35          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 2        | 6.35          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 2        | 6.35          |
| (1,3819) | 1:A:18:LEU:HD21 | 1:A:35:HIS:HB2 | 10       | 6.35          |
| (1,3819) | 1:A:18:LEU:HD22 | 1:A:35:HIS:HB2 | 10       | 6.35          |
| (1,3819) | 1:A:18:LEU:HD23 | 1:A:35:HIS:HB2 | 10       | 6.35          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 1        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 1        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 1        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 7        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 7        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 7        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 8        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 8        | 6.35          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 8        | 6.35          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 2        | 6.35          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 2        | 6.35          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 2        | 6.35          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 2        | 6.35          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 2        | 6.35          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 2        | 6.35          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3 | 17       | 6.35          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 11       | 6.35          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 13       | 6.35          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 13       | 6.35          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 1        | 6.35          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 5        | 6.35          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 18       | 6.35          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 18       | 6.35          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 19       | 6.35          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 19       | 6.35          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 20       | 6.35          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 20       | 6.35          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 9        | 6.35          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 7        | 6.35          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 7        | 6.35          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 17       | 6.35          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 9        | 6.35          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3 | 11       | 6.35          |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB2 | 3        | 6.35          |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB3 | 3        | 6.35          |
| (1,2803) | 1:A:11:TRP:HE3  | 1:A:26:CYS:H   | 15       | 6.35          |
| (1,2425) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HZ3 | 13       | 6.35          |
| (1,2425) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HZ3 | 13       | 6.35          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3 | 17       | 6.35          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB2 | 17       | 6.35          |
| (1,2115) | 1:A:8:GLY:HA3   | 1:A:22:GLN:HB3 | 17       | 6.35          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD1 | 8        | 6.35          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD2 | 8        | 6.35          |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB2 | 16       | 6.35          |
| (1,2030) | 1:A:8:GLY:H     | 1:A:15:ARG:HB3 | 16       | 6.35          |
| (1,1792) | 1:A:6:GLN:HE21  | 1:A:8:GLY:H    | 16       | 6.35          |
| (1,1792) | 1:A:6:GLN:HE21  | 1:A:8:GLY:H    | 19       | 6.35          |
| (1,1652) | 1:A:6:GLN:HB3   | 1:A:23:TYR:H   | 8        | 6.35          |
| (1,1652) | 1:A:6:GLN:HB3   | 1:A:23:TYR:H   | 18       | 6.35          |
| (1,1652) | 1:A:6:GLN:HB3   | 1:A:23:TYR:H   | 19       | 6.35          |
| (1,1596) | 1:A:6:GLN:HB2   | 1:A:20:CYS:HB2 | 14       | 6.35          |
| (1,1592) | 1:A:6:GLN:HB2   | 1:A:14:CYS:H   | 14       | 6.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 12       | 6.35          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 6        | 6.35          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1 | 4        | 6.35          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 8        | 6.35          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 8        | 6.35          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H   | 16       | 6.35          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 8        | 6.35          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 7        | 6.35          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 12       | 6.35          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 15       | 6.35          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 8        | 6.34          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 12       | 6.34          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2 | 13       | 6.34          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3 | 13       | 6.34          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB2  | 9        | 6.34          |
| (1,605)  | 1:A:2:GLY:H    | 1:A:9:PRO:HB3  | 9        | 6.34          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2  | 17       | 6.34          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2  | 17       | 6.34          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3  | 17       | 6.34          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3  | 17       | 6.34          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 2        | 6.34          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA  | 17       | 6.34          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 14       | 6.34          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 3        | 6.34          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 3        | 6.34          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 1        | 6.34          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 1        | 6.34          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 3        | 6.34          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 3        | 6.34          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2 | 16       | 6.34          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 3        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 3        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 3        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 3        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 6        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 6        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 6        | 6.34          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 6        | 6.34          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H   | 20       | 6.34          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H   | 20       | 6.34          |
| (1,4404) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HA  | 10       | 6.34          |
| (1,4404) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HA  | 10       | 6.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1 | 9        | 6.34          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 16       | 6.34          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 16       | 6.34          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 4        | 6.34          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 11       | 6.34          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 18       | 6.34          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 19       | 6.34          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 20       | 6.34          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA2 | 15       | 6.34          |
| (1,4314) | 1:A:22:GLN:HE22 | 1:A:29:GLY:HA3 | 15       | 6.34          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 13       | 6.34          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 13       | 6.34          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 2        | 6.34          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 14       | 6.34          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 14       | 6.34          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 1        | 6.34          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 20       | 6.34          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 9        | 6.34          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 9        | 6.34          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 2        | 6.34          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 2        | 6.34          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 4        | 6.34          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 4        | 6.34          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 5        | 6.34          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 5        | 6.34          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 5        | 6.34          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 5        | 6.34          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD1 | 2        | 6.34          |
| (1,3919) | 1:A:20:CYS:H    | 1:A:23:TYR:HD2 | 2        | 6.34          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 15       | 6.34          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 15       | 6.34          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 15       | 6.34          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 13       | 6.34          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 6        | 6.34          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 14       | 6.34          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 8        | 6.34          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 12       | 6.34          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 20       | 6.34          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 8        | 6.34          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 8        | 6.34          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 6        | 6.34          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 6        | 6.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 9        | 6.34          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 12       | 6.34          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H   | 20       | 6.34          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB2 | 17       | 6.34          |
| (1,2746) | 1:A:11:TRP:HD1 | 1:A:23:TYR:HB3 | 17       | 6.34          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1 | 7        | 6.34          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2 | 7        | 6.34          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 7        | 6.34          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 8        | 6.34          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 12       | 6.34          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H   | 13       | 6.34          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 20       | 6.34          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 3        | 6.34          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1 | 14       | 6.34          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 20       | 6.34          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 2        | 6.34          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 10       | 6.34          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 9        | 6.33          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 18       | 6.33          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 19       | 6.33          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 4        | 6.33          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 4        | 6.33          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H    | 12       | 6.33          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H    | 12       | 6.33          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H    | 20       | 6.33          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H    | 20       | 6.33          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2 | 4        | 6.33          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2 | 15       | 6.33          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3 | 15       | 6.33          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA   | 2        | 6.33          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 11       | 6.33          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 11       | 6.33          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H   | 14       | 6.33          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 2        | 6.33          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 3        | 6.33          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 3        | 6.33          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 16       | 6.33          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2 | 15       | 6.33          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3 | 15       | 6.33          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 4        | 6.33          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 4        | 6.33          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 4        | 6.33          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 4        | 6.33          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 1        | 6.33          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 18       | 6.33          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 18       | 6.33          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA2 | 14       | 6.33          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA2 | 14       | 6.33          |
| (1,4422) | 1:A:23:TYR:HE1  | 1:A:29:GLY:HA3 | 14       | 6.33          |
| (1,4422) | 1:A:23:TYR:HE2  | 1:A:29:GLY:HA3 | 14       | 6.33          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 19       | 6.33          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 19       | 6.33          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 1        | 6.33          |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 16       | 6.33          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 20       | 6.33          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 16       | 6.33          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 17       | 6.33          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 8        | 6.33          |
| (1,4128) | 1:A:22:GLN:H    | 1:A:33:CYS:HB2 | 17       | 6.33          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 17       | 6.33          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 17       | 6.33          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 3        | 6.33          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 4        | 6.33          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 6        | 6.33          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 12       | 6.33          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 20       | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 2        | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 2        | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 4        | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 4        | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 14       | 6.33          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 14       | 6.33          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD1 | 14       | 6.33          |
| (1,3825) | 1:A:19:CYS:H    | 1:A:23:TYR:HD2 | 14       | 6.33          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA2 | 14       | 6.33          |
| (1,3685) | 1:A:18:LEU:HB2  | 1:A:24:GLY:HA3 | 14       | 6.33          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 3        | 6.33          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 14       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 15       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 15       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 18       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 18       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 19       | 6.33          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 19       | 6.33          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3310) | 1:A:15:ARG:HB2 | 1:A:29:GLY:H    | 11       | 6.33          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 1        | 6.33          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 1        | 6.33          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 11       | 6.33          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 11       | 6.33          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 4        | 6.33          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 4        | 6.33          |
| (1,3068) | 1:A:12:GLY:HA3 | 1:A:26:CYS:H    | 13       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 16       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 16       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 16       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 16       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 16       | 6.33          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 16       | 6.33          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 4        | 6.33          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 4        | 6.33          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 6        | 6.33          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 6        | 6.33          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 8        | 6.33          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 18       | 6.33          |
| (1,2195) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE3  | 13       | 6.33          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 7        | 6.33          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 14       | 6.33          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 18       | 6.33          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 8        | 6.33          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 9        | 6.33          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 20       | 6.33          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 14       | 6.33          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 7        | 6.33          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 17       | 6.33          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 12       | 6.33          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 7        | 6.33          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 18       | 6.33          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H    | 2        | 6.33          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 3        | 6.32          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 3        | 6.32          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 8        | 6.32          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 8        | 6.32          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 9        | 6.32          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 9        | 6.32          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 12       | 6.32          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 12       | 6.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA   | 2        | 6.32          |
| (1,833)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HA   | 14       | 6.32          |
| (1,572)  | 1:A:1:SER:HB2   | 1:A:24:GLY:H   | 2        | 6.32          |
| (1,572)  | 1:A:1:SER:HB3   | 1:A:24:GLY:H   | 2        | 6.32          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 3        | 6.32          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 8        | 6.32          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ1 | 8        | 6.32          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ2 | 8        | 6.32          |
| (1,4641) | 1:A:26:CYS:HA   | 1:A:31:LYS:HZ3 | 8        | 6.32          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2 | 8        | 6.32          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3 | 8        | 6.32          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 15       | 6.32          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 15       | 6.32          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 15       | 6.32          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 15       | 6.32          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 7        | 6.32          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 7        | 6.32          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 15       | 6.32          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 15       | 6.32          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 15       | 6.32          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 15       | 6.32          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 18       | 6.32          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 18       | 6.32          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 5        | 6.32          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 5        | 6.32          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 9        | 6.32          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 9        | 6.32          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 7        | 6.32          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 7        | 6.32          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 7        | 6.32          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 3        | 6.32          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 7        | 6.32          |
| (1,4179) | 1:A:22:GLN:HB2  | 1:A:27:GLY:H   | 18       | 6.32          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 11       | 6.32          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 11       | 6.32          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 3        | 6.32          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD1 | 14       | 6.32          |
| (1,3872) | 1:A:19:CYS:HB2  | 1:A:23:TYR:HD2 | 14       | 6.32          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 18       | 6.32          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 19       | 6.32          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 12       | 6.32          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 12       | 6.32          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 6        | 6.32          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 6        | 6.32          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 6        | 6.32          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 5        | 6.32          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 5        | 6.32          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 5        | 6.32          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 12       | 6.32          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 12       | 6.32          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 12       | 6.32          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 4        | 6.32          |
| (1,3616) | 1:A:17:GLY:HA2  | 1:A:35:HIS:H    | 12       | 6.32          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 5        | 6.32          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 5        | 6.32          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 11       | 6.32          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2  | 2        | 6.32          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3  | 2        | 6.32          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2  | 10       | 6.32          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3  | 10       | 6.32          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H    | 11       | 6.32          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H    | 17       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 18       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 20       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 20       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 20       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 20       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 20       | 6.32          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 20       | 6.32          |
| (1,2803) | 1:A:11:TRP:HE3  | 1:A:26:CYS:H    | 19       | 6.32          |
| (1,2362) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HB3  | 17       | 6.32          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3  | 2        | 6.32          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3  | 4        | 6.32          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3  | 5        | 6.32          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3  | 6        | 6.32          |
| (1,2294) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HB3  | 10       | 6.32          |
| (1,2090) | 1:A:8:GLY:HA2   | 1:A:26:CYS:H    | 9        | 6.32          |
| (1,2090) | 1:A:8:GLY:HA2   | 1:A:26:CYS:H    | 16       | 6.32          |
| (1,1792) | 1:A:6:GLN:HE21  | 1:A:8:GLY:H     | 20       | 6.32          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 1        | 6.32          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 7        | 6.32          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 11       | 6.32          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 16       | 6.32          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 18       | 6.32          |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 19       | 6.32          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 7        | 6.32          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 11       | 6.32          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 18       | 6.32          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 16       | 6.32          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 16       | 6.32          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 17       | 6.32          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 15       | 6.32          |
| (1,1419) | 1:A:5:GLY:H    | 1:A:18:LEU:HG   | 20       | 6.32          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 16       | 6.32          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 16       | 6.32          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 2        | 6.32          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 2        | 6.32          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 2        | 6.32          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 1        | 6.31          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 1        | 6.31          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 11       | 6.31          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 11       | 6.31          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 4        | 6.31          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 4        | 6.31          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 7        | 6.31          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 7        | 6.31          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 16       | 6.31          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 16       | 6.31          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 3        | 6.31          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 4        | 6.31          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 8        | 6.31          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 8        | 6.31          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 8        | 6.31          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 8        | 6.31          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 17       | 6.31          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 17       | 6.31          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 17       | 6.31          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 17       | 6.31          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 20       | 6.31          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 20       | 6.31          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 8        | 6.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 15       | 6.31          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 4        | 6.31          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 10       | 6.31          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 14       | 6.31          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD2 | 20       | 6.31          |
| (1,4518) | 1:A:25:TYR:H    | 1:A:31:LYS:HD3 | 20       | 6.31          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 18       | 6.31          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 18       | 6.31          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2 | 3        | 6.31          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3 | 3        | 6.31          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2 | 3        | 6.31          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3 | 3        | 6.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 17       | 6.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 17       | 6.31          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 3        | 6.31          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA  | 15       | 6.31          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 17       | 6.31          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 2        | 6.31          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 6        | 6.31          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 3        | 6.31          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 16       | 6.31          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 16       | 6.31          |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA  | 4        | 6.31          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 1        | 6.31          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 1        | 6.31          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 18       | 6.31          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 19       | 6.31          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 20       | 6.31          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 16       | 6.31          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 16       | 6.31          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 1        | 6.31          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 2        | 6.31          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 5        | 6.31          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 6        | 6.31          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 17       | 6.31          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 6        | 6.31          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2 | 13       | 6.31          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3 | 13       | 6.31          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 13       | 6.31          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 13       | 6.31          |
| (1,3398) | 1:A:15:ARG:HD2  | 1:A:21:SER:H   | 19       | 6.31          |
| (1,3398) | 1:A:15:ARG:HD3  | 1:A:21:SER:H   | 19       | 6.31          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H    | 6        | 6.31          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 6        | 6.31          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 12       | 6.31          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 12       | 6.31          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 16       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 19       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 19       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 19       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 19       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 19       | 6.31          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 19       | 6.31          |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 11       | 6.31          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 7        | 6.31          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 7        | 6.31          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 3        | 6.31          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 18       | 6.31          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 19       | 6.31          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 20       | 6.31          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 10       | 6.31          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 10       | 6.31          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 10       | 6.31          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 10       | 6.31          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 16       | 6.31          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 16       | 6.31          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 3        | 6.31          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 3        | 6.31          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 4        | 6.31          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 4        | 6.31          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 13       | 6.31          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H    | 16       | 6.31          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 17       | 6.31          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 4        | 6.31          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 4        | 6.31          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 3        | 6.31          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 9        | 6.31          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 7        | 6.31          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H    | 19       | 6.31          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 5        | 6.31          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 4        | 6.31          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 18       | 6.3           |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 18       | 6.3           |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 19       | 6.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H    | 19       | 6.3           |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2 | 3        | 6.3           |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG2 | 1        | 6.3           |
| (1,755)  | 1:A:3:PRO:HA    | 1:A:15:ARG:HG3 | 1        | 6.3           |
| (1,720)  | 1:A:2:GLY:HA3   | 1:A:13:GLY:H   | 2        | 6.3           |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 11       | 6.3           |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 11       | 6.3           |
| (1,572)  | 1:A:1:SER:HB2   | 1:A:24:GLY:H   | 16       | 6.3           |
| (1,572)  | 1:A:1:SER:HB3   | 1:A:24:GLY:H   | 16       | 6.3           |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 19       | 6.3           |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 19       | 6.3           |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 19       | 6.3           |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 19       | 6.3           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 6        | 6.3           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 6        | 6.3           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 19       | 6.3           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 19       | 6.3           |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 5        | 6.3           |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 1        | 6.3           |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 3        | 6.3           |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 9        | 6.3           |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 9        | 6.3           |
| (1,4354) | 1:A:23:TYR:H    | 1:A:33:CYS:H   | 17       | 6.3           |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 10       | 6.3           |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 10       | 6.3           |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 18       | 6.3           |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 7        | 6.3           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 7        | 6.3           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 7        | 6.3           |
| (1,4085) | 1:A:21:SER:HG   | 1:A:31:LYS:HA  | 2        | 6.3           |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 3        | 6.3           |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 3        | 6.3           |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 7        | 6.3           |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 9        | 6.3           |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 14       | 6.3           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 6        | 6.3           |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 6        | 6.3           |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 1        | 6.3           |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 12       | 6.3           |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 12       | 6.3           |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 20       | 6.3           |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 7        | 6.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 18       | 6.3           |
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 19       | 6.3           |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA   | 6        | 6.3           |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA   | 6        | 6.3           |
| (1,3292) | 1:A:15:ARG:HB2 | 1:A:20:CYS:H    | 5        | 6.3           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 3        | 6.3           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 3        | 6.3           |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 8        | 6.3           |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 15       | 6.3           |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 1        | 6.3           |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 12       | 6.3           |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 15       | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 9        | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 9        | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 9        | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 9        | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 9        | 6.3           |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 9        | 6.3           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 12       | 6.3           |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 12       | 6.3           |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2  | 16       | 6.3           |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3  | 16       | 6.3           |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 7        | 6.3           |
| (1,2803) | 1:A:11:TRP:HE3 | 1:A:26:CYS:H    | 16       | 6.3           |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 9        | 6.3           |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 9        | 6.3           |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 16       | 6.3           |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 16       | 6.3           |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 20       | 6.3           |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 20       | 6.3           |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 2        | 6.3           |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 4        | 6.3           |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 5        | 6.3           |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 6        | 6.3           |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3  | 10       | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 7        | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 8        | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 9        | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 12       | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 14       | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 18       | 6.3           |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 19       | 6.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3  | 20       | 6.3           |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 9        | 6.3           |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 9        | 6.3           |
| (1,1713) | 1:A:6:GLN:HG2  | 1:A:21:SER:H    | 15       | 6.3           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 18       | 6.3           |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 18       | 6.3           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 13       | 6.3           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 13       | 6.3           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 13       | 6.3           |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 18       | 6.3           |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1  | 13       | 6.3           |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H    | 3        | 6.3           |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 15       | 6.29          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 15       | 6.29          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 4        | 6.29          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 4        | 6.29          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA    | 10       | 6.29          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 10       | 6.29          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG2  | 11       | 6.29          |
| (1,686)  | 1:A:2:GLY:HA2  | 1:A:15:ARG:HG3  | 11       | 6.29          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 6        | 6.29          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG   | 1        | 6.29          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG   | 1        | 6.29          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE   | 5        | 6.29          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE   | 5        | 6.29          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 15       | 6.29          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 15       | 6.29          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 15       | 6.29          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3   | 15       | 6.29          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 1        | 6.29          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 1        | 6.29          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 1        | 6.29          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 4        | 6.29          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 4        | 6.29          |
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3  | 12       | 6.29          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 18       | 6.29          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 18       | 6.29          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 17       | 6.29          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 2        | 6.29          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 2        | 6.29          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 2        | 6.29          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 14       | 6.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 14       | 6.29          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 14       | 6.29          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2 | 19       | 6.29          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 2        | 6.29          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 2        | 6.29          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 6        | 6.29          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 20       | 6.29          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 20       | 6.29          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 20       | 6.29          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 14       | 6.29          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 5        | 6.29          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 11       | 6.29          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 6        | 6.29          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 3        | 6.29          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 3        | 6.29          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 9        | 6.29          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 14       | 6.29          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 15       | 6.29          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 16       | 6.29          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 16       | 6.29          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 15       | 6.29          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 9        | 6.29          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 9        | 6.29          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 9        | 6.29          |
| (1,4028) | 1:A:21:SER:H    | 1:A:29:GLY:H   | 16       | 6.29          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 5        | 6.29          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 10       | 6.29          |
| (1,3838) | 1:A:19:CYS:H    | 1:A:30:PRO:HD3 | 10       | 6.29          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 3        | 6.29          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 3        | 6.29          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 5        | 6.29          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 5        | 6.29          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 5        | 6.29          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 5        | 6.29          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 5        | 6.29          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 1        | 6.29          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 1        | 6.29          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 3        | 6.29          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 12       | 6.29          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 16       | 6.29          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 4        | 6.29          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2 | 10       | 6.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA2 | 1        | 6.29          |
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA3 | 1        | 6.29          |
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA2 | 16       | 6.29          |
| (1,3475) | 1:A:16:GLY:H   | 1:A:27:GLY:HA3 | 16       | 6.29          |
| (1,3474) | 1:A:16:GLY:H   | 1:A:27:GLY:H   | 12       | 6.29          |
| (1,3456) | 1:A:16:GLY:H   | 1:A:20:CYS:H   | 20       | 6.29          |
| (1,3387) | 1:A:15:ARG:HG2 | 1:A:33:CYS:HA  | 19       | 6.29          |
| (1,3387) | 1:A:15:ARG:HG3 | 1:A:33:CYS:HA  | 19       | 6.29          |
| (1,3292) | 1:A:15:ARG:HB2 | 1:A:20:CYS:H   | 6        | 6.29          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1 | 13       | 6.29          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2 | 13       | 6.29          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H   | 12       | 6.29          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H   | 18       | 6.29          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H   | 19       | 6.29          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H   | 11       | 6.29          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2 | 2        | 6.29          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3 | 2        | 6.29          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 18       | 6.29          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 18       | 6.29          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 19       | 6.29          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 19       | 6.29          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 3        | 6.29          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3 | 1        | 6.29          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3 | 11       | 6.29          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3 | 13       | 6.29          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3 | 15       | 6.29          |
| (1,2294) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HB3 | 16       | 6.29          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 5        | 6.29          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 5        | 6.29          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3 | 15       | 6.29          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3 | 15       | 6.29          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 3        | 6.29          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 3        | 6.29          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 9        | 6.29          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 1        | 6.29          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 13       | 6.29          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 3        | 6.29          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 4        | 6.29          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 8        | 6.29          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 9        | 6.29          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 9        | 6.29          |
| (1,1220) | 1:A:4:ASN:HB3  | 1:A:24:GLY:H   | 6        | 6.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1 | 12       | 6.29          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2 | 12       | 6.29          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 19       | 6.29          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 2        | 6.29          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 5        | 6.29          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 10       | 6.29          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2 | 12       | 6.28          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2 | 12       | 6.28          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 14       | 6.28          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 14       | 6.28          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA   | 6        | 6.28          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H   | 12       | 6.28          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H   | 12       | 6.28          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1 | 3        | 6.28          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2 | 3        | 6.28          |
| (1,518)  | 1:A:1:SER:HA   | 1:A:18:LEU:HB2 | 17       | 6.28          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 3        | 6.28          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 3        | 6.28          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA  | 3        | 6.28          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 18       | 6.28          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 18       | 6.28          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 18       | 6.28          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 15       | 6.28          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 4        | 6.28          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 4        | 6.28          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 4        | 6.28          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 10       | 6.28          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 10       | 6.28          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 10       | 6.28          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 10       | 6.28          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 13       | 6.28          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 13       | 6.28          |
| (1,4680) | 1:A:27:GLY:H   | 1:A:31:LYS:HA  | 2        | 6.28          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2 | 14       | 6.28          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3 | 14       | 6.28          |
| (1,4539) | 1:A:25:TYR:HB2 | 1:A:32:TYR:H   | 2        | 6.28          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1 | 13       | 6.28          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2 | 13       | 6.28          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3 | 13       | 6.28          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1 | 13       | 6.28          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB2 | 13       | 6.28          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB3 | 13       | 6.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 11       | 6.28          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 11       | 6.28          |
| (1,4385) | 1:A:23:TYR:HB2  | 1:A:35:HIS:HD2 | 19       | 6.28          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 7        | 6.28          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 7        | 6.28          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 7        | 6.28          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 19       | 6.28          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 2        | 6.28          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 4        | 6.28          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 7        | 6.28          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H   | 8        | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 13       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 13       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 18       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 18       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 19       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 19       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 20       | 6.28          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 20       | 6.28          |
| (1,3977) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HA  | 7        | 6.28          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 12       | 6.28          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 2        | 6.28          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 2        | 6.28          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 2        | 6.28          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 17       | 6.28          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 17       | 6.28          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 17       | 6.28          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 2        | 6.28          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 15       | 6.28          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 2        | 6.28          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 10       | 6.28          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 14       | 6.28          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 18       | 6.28          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 18       | 6.28          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 19       | 6.28          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H   | 12       | 6.28          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H   | 9        | 6.28          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 7        | 6.28          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 14       | 6.28          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 9        | 6.28          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 20       | 6.28          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2 | 13       | 6.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 13       | 6.28          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2 | 4        | 6.28          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3 | 4        | 6.28          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 8        | 6.28          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 8        | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 7        | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 8        | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 9        | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 12       | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 14       | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 16       | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 18       | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 19       | 6.28          |
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 20       | 6.28          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3 | 1        | 6.28          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3 | 1        | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 11       | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 11       | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 12       | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 12       | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 13       | 6.28          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 13       | 6.28          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 11       | 6.28          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 11       | 6.28          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1 | 11       | 6.28          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2 | 11       | 6.28          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 1        | 6.28          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 1        | 6.28          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 19       | 6.28          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 19       | 6.28          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 16       | 6.28          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 20       | 6.28          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 3        | 6.28          |
| (1,1191) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HE1 | 17       | 6.28          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 2        | 6.28          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 8        | 6.28          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 9        | 6.28          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 11       | 6.27          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 11       | 6.27          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1 | 3        | 6.27          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1 | 3        | 6.27          |
| (1,833)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HA   | 5        | 6.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 4        | 6.27          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2 | 4        | 6.27          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3 | 4        | 6.27          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 5        | 6.27          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 5        | 6.27          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 5        | 6.27          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2 | 12       | 6.27          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1 | 1        | 6.27          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2 | 1        | 6.27          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3 | 1        | 6.27          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 12       | 6.27          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 12       | 6.27          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 12       | 6.27          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ1 | 6        | 6.27          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ2 | 6        | 6.27          |
| (1,4641) | 1:A:26:CYS:HA  | 1:A:31:LYS:HZ3 | 6        | 6.27          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 14       | 6.27          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 14       | 6.27          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 14       | 6.27          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 14       | 6.27          |
| (1,4487) | 1:A:24:GLY:HA2 | 1:A:35:HIS:HE1 | 9        | 6.27          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG2 | 13       | 6.27          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG3 | 13       | 6.27          |
| (1,4173) | 1:A:22:GLN:HB2 | 1:A:26:CYS:HA  | 14       | 6.27          |
| (1,4165) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HB3 | 7        | 6.27          |
| (1,4153) | 1:A:22:GLN:HA  | 1:A:34:ALA:H   | 13       | 6.27          |
| (1,4046) | 1:A:21:SER:H   | 1:A:35:HIS:HE1 | 9        | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB1 | 7        | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB2 | 7        | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB3 | 7        | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB1 | 16       | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB2 | 16       | 6.27          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB3 | 16       | 6.27          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1 | 16       | 6.27          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2 | 16       | 6.27          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3 | 16       | 6.27          |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA  | 1        | 6.27          |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA  | 2        | 6.27          |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA  | 10       | 6.27          |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA  | 11       | 6.27          |
| (1,3957) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HA  | 12       | 6.27          |
| (1,3946) | 1:A:20:CYS:H   | 1:A:35:HIS:H   | 8        | 6.27          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 3        | 6.27          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 3        | 6.27          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 3        | 6.27          |
| (1,3755) | 1:A:18:LEU:HG   | 1:A:33:CYS:H    | 14       | 6.27          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 4        | 6.27          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 13       | 6.27          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 18       | 6.27          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 19       | 6.27          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 10       | 6.27          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3  | 5        | 6.27          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3  | 14       | 6.27          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2  | 7        | 6.27          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3  | 7        | 6.27          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 8        | 6.27          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 19       | 6.27          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H    | 7        | 6.27          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 12       | 6.27          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 7        | 6.27          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 7        | 6.27          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 4        | 6.27          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H    | 4        | 6.27          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2  | 1        | 6.27          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 8        | 6.27          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H    | 15       | 6.27          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2  | 15       | 6.27          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3  | 15       | 6.27          |
| (1,3088) | 1:A:13:GLY:H    | 1:A:15:ARG:HE   | 5        | 6.27          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2  | 2        | 6.27          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3  | 2        | 6.27          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2  | 3        | 6.27          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3  | 3        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 7        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 7        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 7        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 7        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 7        | 6.27          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 7        | 6.27          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG2  | 16       | 6.27          |
| (1,2679) | 1:A:11:TRP:HB3  | 1:A:15:ARG:HG3  | 16       | 6.27          |
| (1,2362) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HB3  | 1        | 6.27          |
| (1,2362) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HB3  | 11       | 6.27          |
| (1,2362) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HB3  | 13       | 6.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2362) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HB3 | 15       | 6.27          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1 | 13       | 6.27          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2 | 13       | 6.27          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 10       | 6.27          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 10       | 6.27          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3 | 11       | 6.27          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3 | 11       | 6.27          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2 | 3        | 6.27          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3 | 3        | 6.27          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2 | 6        | 6.27          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3 | 6        | 6.27          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 1        | 6.27          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 1        | 6.27          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 9        | 6.27          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 9        | 6.27          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 15       | 6.27          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 8        | 6.27          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 12       | 6.27          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 18       | 6.27          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2 | 19       | 6.27          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2  | 14       | 6.27          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3  | 14       | 6.27          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 1        | 6.27          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 11       | 6.27          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2 | 7        | 6.27          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3 | 7        | 6.27          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 8        | 6.27          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2 | 5        | 6.27          |
| (1,1089) | 1:A:4:ASN:H    | 1:A:25:TYR:H   | 6        | 6.27          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 6        | 6.26          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 6        | 6.26          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 13       | 6.26          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 13       | 6.26          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H    | 14       | 6.26          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H    | 14       | 6.26          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2 | 2        | 6.26          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 5        | 6.26          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 5        | 6.26          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD1 | 9        | 6.26          |
| (1,588)  | 1:A:1:SER:HB2  | 1:A:32:TYR:HD2 | 9        | 6.26          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD1 | 9        | 6.26          |
| (1,588)  | 1:A:1:SER:HB3  | 1:A:32:TYR:HD2 | 9        | 6.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2  | 12       | 6.26          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2  | 12       | 6.26          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 12       | 6.26          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 12       | 6.26          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 9        | 6.26          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 1        | 6.26          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 13       | 6.26          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 13       | 6.26          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 13       | 6.26          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 5        | 6.26          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 5        | 6.26          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 15       | 6.26          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 15       | 6.26          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 20       | 6.26          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 11       | 6.26          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 11       | 6.26          |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H   | 15       | 6.26          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 5        | 6.26          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 14       | 6.26          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 5        | 6.26          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 15       | 6.26          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 15       | 6.26          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 11       | 6.26          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 11       | 6.26          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 11       | 6.26          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 17       | 6.26          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 19       | 6.26          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 7        | 6.26          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 7        | 6.26          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 7        | 6.26          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 7        | 6.26          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 13       | 6.26          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 15       | 6.26          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 8        | 6.26          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 11       | 6.26          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H   | 17       | 6.26          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H   | 17       | 6.26          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H   | 17       | 6.26          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 7        | 6.26          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 8        | 6.26          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 9        | 6.26          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 9        | 6.26          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB2  | 7        | 6.26          |
| (1,3426) | 1:A:15:ARG:HE  | 1:A:19:CYS:HB3  | 7        | 6.26          |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H    | 2        | 6.26          |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H    | 2        | 6.26          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H    | 9        | 6.26          |
| (1,3224) | 1:A:14:CYS:HB2 | 1:A:35:HIS:H    | 19       | 6.26          |
| (1,3204) | 1:A:14:CYS:HB2 | 1:A:24:GLY:H    | 16       | 6.26          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 6        | 6.26          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 6        | 6.26          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 14       | 6.26          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 14       | 6.26          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 5        | 6.26          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 5        | 6.26          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 10       | 6.26          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 10       | 6.26          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 6        | 6.26          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 6        | 6.26          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 6        | 6.26          |
| (1,2118) | 1:A:8:GLY:HA3  | 1:A:23:TYR:HB3  | 17       | 6.26          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 8        | 6.26          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 5        | 6.26          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 5        | 6.26          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 18       | 6.26          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 18       | 6.26          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 8        | 6.26          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 8        | 6.26          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 13       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 7        | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 7        | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 8        | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 8        | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 12       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 12       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 14       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 14       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 16       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 16       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 18       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 18       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 19       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 19       | 6.26          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 20       | 6.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3 | 20       | 6.26          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 17       | 6.26          |
| (1,1652) | 1:A:6:GLN:HB3  | 1:A:23:TYR:H   | 11       | 6.26          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H   | 4        | 6.26          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 14       | 6.26          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 20       | 6.26          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 20       | 6.26          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 7        | 6.26          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 18       | 6.26          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 6        | 6.26          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2 | 10       | 6.26          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 4        | 6.25          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 2        | 6.25          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 1        | 6.25          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 1        | 6.25          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 13       | 6.25          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 13       | 6.25          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 17       | 6.25          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 17       | 6.25          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 1        | 6.25          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA  | 7        | 6.25          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA  | 7        | 6.25          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 5        | 6.25          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 15       | 6.25          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 15       | 6.25          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 15       | 6.25          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 16       | 6.25          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 16       | 6.25          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2 | 18       | 6.25          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2 | 6        | 6.25          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3 | 6        | 6.25          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2 | 19       | 6.25          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3 | 19       | 6.25          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1 | 10       | 6.25          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2 | 10       | 6.25          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3 | 10       | 6.25          |
| (1,4427) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HA  | 18       | 6.25          |
| (1,4427) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HA  | 18       | 6.25          |
| (1,4415) | 1:A:23:TYR:HE1 | 1:A:26:CYS:H   | 1        | 6.25          |
| (1,4415) | 1:A:23:TYR:HE2 | 1:A:26:CYS:H   | 1        | 6.25          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2 | 12       | 6.25          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3 | 12       | 6.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 7        | 6.25          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 11       | 6.25          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 8        | 6.25          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 1        | 6.25          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 7        | 6.25          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 7        | 6.25          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 9        | 6.25          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 9        | 6.25          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 1        | 6.25          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 1        | 6.25          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 1        | 6.25          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 9        | 6.25          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 11       | 6.25          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 12       | 6.25          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 20       | 6.25          |
| (1,3976) | 1:A:20:CYS:HB2  | 1:A:34:ALA:H   | 16       | 6.25          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 14       | 6.25          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 14       | 6.25          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 7        | 6.25          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 9        | 6.25          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 16       | 6.25          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 15       | 6.25          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 5        | 6.25          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 5        | 6.25          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 5        | 6.25          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 5        | 6.25          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 5        | 6.25          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 5        | 6.25          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 7        | 6.25          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 7        | 6.25          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 2        | 6.25          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 10       | 6.25          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 20       | 6.25          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 5        | 6.25          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2 | 11       | 6.25          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3 | 11       | 6.25          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 16       | 6.25          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 16       | 6.25          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 13       | 6.25          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3 | 13       | 6.25          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 7        | 6.25          |
| (1,3204) | 1:A:14:CYS:HB2  | 1:A:24:GLY:H   | 14       | 6.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 5        | 6.25          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 5        | 6.25          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 13       | 6.25          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 3        | 6.25          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 3        | 6.25          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 3        | 6.25          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 11       | 6.25          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 11       | 6.25          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 20       | 6.25          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 20       | 6.25          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 2        | 6.25          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 2        | 6.25          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 18       | 6.25          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 18       | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 2        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 2        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 3        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 3        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 4        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 4        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 5        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 5        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 6        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 6        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 9        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 9        | 6.25          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 10       | 6.25          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 10       | 6.25          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 13       | 6.25          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 7        | 6.25          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 20       | 6.25          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 6        | 6.25          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 12       | 6.25          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 3        | 6.25          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 6        | 6.25          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 19       | 6.25          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 17       | 6.25          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB2  | 20       | 6.25          |
| (1,1365) | 1:A:4:ASN:HD22 | 1:A:26:CYS:HB3  | 20       | 6.25          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 9        | 6.25          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 9        | 6.25          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 9        | 6.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA  | 17       | 6.25          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1 | 8        | 6.25          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2 | 8        | 6.25          |
| (1,1194) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HH2 | 1        | 6.25          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2 | 7        | 6.25          |
| (1,931)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:H   | 1        | 6.24          |
| (1,931)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:H   | 1        | 6.24          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H    | 3        | 6.24          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H    | 3        | 6.24          |
| (1,642)  | 1:A:2:GLY:H     | 1:A:25:TYR:H   | 2        | 6.24          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 11       | 6.24          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 11       | 6.24          |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE  | 1        | 6.24          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2 | 16       | 6.24          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H   | 12       | 6.24          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 3        | 6.24          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 3        | 6.24          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 3        | 6.24          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 1        | 6.24          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 16       | 6.24          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 19       | 6.24          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 7        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 7        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 7        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 7        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 8        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 8        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 8        | 6.24          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 8        | 6.24          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 17       | 6.24          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 20       | 6.24          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 14       | 6.24          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 4        | 6.24          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 1        | 6.24          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 14       | 6.24          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 16       | 6.24          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 18       | 6.24          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 19       | 6.24          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD1 | 2        | 6.24          |
| (1,3959) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HD2 | 2        | 6.24          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 8        | 6.24          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA  | 14       | 6.24          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA   | 18       | 6.24          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA   | 19       | 6.24          |
| (1,3957) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HA   | 20       | 6.24          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 14       | 6.24          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3  | 1        | 6.24          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 14       | 6.24          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 14       | 6.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 14       | 6.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 14       | 6.24          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 14       | 6.24          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2  | 10       | 6.24          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3  | 10       | 6.24          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2  | 20       | 6.24          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3  | 20       | 6.24          |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 15       | 6.24          |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 15       | 6.24          |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 15       | 6.24          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 11       | 6.24          |
| (1,3728) | 1:A:18:LEU:HG   | 1:A:20:CYS:HB2  | 3        | 6.24          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 7        | 6.24          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 18       | 6.24          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 19       | 6.24          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 10       | 6.24          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 10       | 6.24          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 15       | 6.24          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2  | 8        | 6.24          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3  | 8        | 6.24          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA2  | 13       | 6.24          |
| (1,3475) | 1:A:16:GLY:H    | 1:A:27:GLY:HA3  | 13       | 6.24          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 15       | 6.24          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 16       | 6.24          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 18       | 6.24          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 3        | 6.24          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H    | 3        | 6.24          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 2        | 6.24          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 4        | 6.24          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 20       | 6.24          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 20       | 6.24          |
| (1,3069) | 1:A:12:GLY:HA3  | 1:A:26:CYS:HB3  | 13       | 6.24          |
| (1,3014) | 1:A:12:GLY:H    | 1:A:26:CYS:H    | 13       | 6.24          |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB2  | 7        | 6.24          |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB3  | 7        | 6.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 9        | 6.24          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 9        | 6.24          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 12       | 6.24          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 12       | 6.24          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 4        | 6.24          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 4        | 6.24          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 4        | 6.24          |
| (1,2091) | 1:A:8:GLY:HA2  | 1:A:26:CYS:HB2  | 17       | 6.24          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 15       | 6.24          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 15       | 6.24          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 19       | 6.24          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 19       | 6.24          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 7        | 6.24          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 7        | 6.24          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 20       | 6.24          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 20       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 1        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 3        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 6        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 7        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 8        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 9        | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 11       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 12       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 14       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 15       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 16       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 18       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 19       | 6.24          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 20       | 6.24          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 5        | 6.24          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 5        | 6.24          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 14       | 6.24          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 14       | 6.24          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 8        | 6.24          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 8        | 6.24          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 1        | 6.24          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 1        | 6.24          |
| (1,1596) | 1:A:6:GLN:HB2  | 1:A:20:CYS:HB2  | 16       | 6.24          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 8        | 6.24          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 18       | 6.24          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1  | 19       | 6.24          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 20       | 6.24          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 18       | 6.24          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 14       | 6.24          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 8        | 6.24          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 18       | 6.24          |
| (1,1363) | 1:A:4:ASN:HD22 | 1:A:26:CYS:H   | 20       | 6.24          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 16       | 6.24          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 3        | 6.24          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 13       | 6.24          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA  | 8        | 6.24          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 2        | 6.23          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 2        | 6.23          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 12       | 6.23          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 12       | 6.23          |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H    | 17       | 6.23          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H    | 17       | 6.23          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H    | 14       | 6.23          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA   | 3        | 6.23          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 9        | 6.23          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 9        | 6.23          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 3        | 6.23          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 3        | 6.23          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3 | 7        | 6.23          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3 | 7        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 3        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 3        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 3        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 3        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 3        | 6.23          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 3        | 6.23          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 3        | 6.23          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 3        | 6.23          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 20       | 6.23          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H   | 4        | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 6        | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 6        | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 6        | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 17       | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 17       | 6.23          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 17       | 6.23          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 1        | 6.23          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 1        | 6.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 1        | 6.23          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 20       | 6.23          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 20       | 6.23          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 18       | 6.23          |
| (1,4680) | 1:A:27:GLY:H    | 1:A:31:LYS:HA  | 20       | 6.23          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 9        | 6.23          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 9        | 6.23          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 9        | 6.23          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 9        | 6.23          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 15       | 6.23          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 15       | 6.23          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 15       | 6.23          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 15       | 6.23          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 9        | 6.23          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 9        | 6.23          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 11       | 6.23          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 11       | 6.23          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG2 | 15       | 6.23          |
| (1,4317) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HG3 | 15       | 6.23          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 2        | 6.23          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA  | 5        | 6.23          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 8        | 6.23          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 8        | 6.23          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2 | 14       | 6.23          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3 | 14       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 18       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 18       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 18       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 19       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 19       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 19       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 20       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 20       | 6.23          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 20       | 6.23          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1 | 4        | 6.23          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2 | 4        | 6.23          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3 | 4        | 6.23          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 17       | 6.23          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 16       | 6.23          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 16       | 6.23          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2 | 18       | 6.23          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3 | 18       | 6.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB2  | 19       | 6.23          |
| (1,3836) | 1:A:19:CYS:H    | 1:A:30:PRO:HB3  | 19       | 6.23          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 13       | 6.23          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 13       | 6.23          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 13       | 6.23          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 12       | 6.23          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 12       | 6.23          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 12       | 6.23          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 9        | 6.23          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 16       | 6.23          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 8        | 6.23          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 8        | 6.23          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 9        | 6.23          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB2  | 1        | 6.23          |
| (1,3434) | 1:A:15:ARG:HE   | 1:A:28:SER:HB3  | 1        | 6.23          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H    | 17       | 6.23          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H    | 17       | 6.23          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 6        | 6.23          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H    | 6        | 6.23          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 18       | 6.23          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 18       | 6.23          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 19       | 6.23          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 19       | 6.23          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 7        | 6.23          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 7        | 6.23          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1  | 6        | 6.23          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2  | 6        | 6.23          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 1        | 6.23          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 5        | 6.23          |
| (1,3040) | 1:A:12:GLY:HA2  | 1:A:20:CYS:H    | 17       | 6.23          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD11 | 5        | 6.23          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD12 | 5        | 6.23          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD13 | 5        | 6.23          |
| (1,2265) | 1:A:9:PRO:HB3   | 1:A:24:GLY:HA2  | 17       | 6.23          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1  | 4        | 6.23          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2  | 4        | 6.23          |
| (1,2090) | 1:A:8:GLY:HA2   | 1:A:26:CYS:H    | 14       | 6.23          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE1  | 13       | 6.23          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE2  | 13       | 6.23          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE1  | 19       | 6.23          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE2  | 19       | 6.23          |
| (1,2027) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ3  | 2        | 6.23          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3 | 4        | 6.23          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3 | 5        | 6.23          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3 | 10       | 6.23          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H   | 15       | 6.23          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H   | 15       | 6.23          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE  | 6        | 6.23          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 6        | 6.23          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H    | 15       | 6.23          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 5        | 6.23          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 10       | 6.23          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 7        | 6.23          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 9        | 6.23          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 16       | 6.23          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 5        | 6.23          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H   | 16       | 6.23          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 7        | 6.23          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H   | 12       | 6.23          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1 | 1        | 6.23          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 17       | 6.23          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 14       | 6.23          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 14       | 6.23          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2 | 20       | 6.23          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 7        | 6.23          |
| (1,1210) | 1:A:4:ASN:HB3  | 1:A:21:SER:H   | 19       | 6.23          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 5        | 6.22          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 5        | 6.22          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 10       | 6.22          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 10       | 6.22          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 10       | 6.22          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 10       | 6.22          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA   | 6        | 6.22          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1 | 13       | 6.22          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2 | 13       | 6.22          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1 | 5        | 6.22          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2 | 5        | 6.22          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3 | 5        | 6.22          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 1        | 6.22          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 1        | 6.22          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 1        | 6.22          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 1        | 6.22          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 19       | 6.22          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 19       | 6.22          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H    | 10       | 6.22          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA   | 9        | 6.22          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 9        | 6.22          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2  | 9        | 6.22          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 9        | 6.22          |
| (1,4330) | 1:A:22:GLN:HE22 | 1:A:33:CYS:HA   | 2        | 6.22          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 19       | 6.22          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 12       | 6.22          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 8        | 6.22          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 8        | 6.22          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3  | 7        | 6.22          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 11       | 6.22          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 12       | 6.22          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 17       | 6.22          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1  | 16       | 6.22          |
| (1,4113) | 1:A:22:GLN:H    | 1:A:28:SER:H    | 12       | 6.22          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 10       | 6.22          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 10       | 6.22          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB2  | 12       | 6.22          |
| (1,4078) | 1:A:21:SER:HG   | 1:A:28:SER:HB3  | 12       | 6.22          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 10       | 6.22          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 10       | 6.22          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 20       | 6.22          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3  | 17       | 6.22          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H    | 15       | 6.22          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H    | 15       | 6.22          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 3        | 6.22          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 3        | 6.22          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 18       | 6.22          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 18       | 6.22          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 19       | 6.22          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 19       | 6.22          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1  | 15       | 6.22          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2  | 15       | 6.22          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 6        | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 15       | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 15       | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 15       | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 15       | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 15       | 6.22          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 15       | 6.22          |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB2  | 18       | 6.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 18       | 6.22          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 19       | 6.22          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 19       | 6.22          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 20       | 6.22          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 20       | 6.22          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 2        | 6.22          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 2        | 6.22          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 2        | 6.22          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 3        | 6.22          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 3        | 6.22          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 11       | 6.22          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 11       | 6.22          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1  | 14       | 6.22          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2  | 14       | 6.22          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 15       | 6.22          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 17       | 6.22          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 19       | 6.22          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 13       | 6.22          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 13       | 6.22          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 2        | 6.22          |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 19       | 6.22          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 15       | 6.22          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 16       | 6.22          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 11       | 6.22          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 11       | 6.22          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 8        | 6.22          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 4        | 6.22          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 9        | 6.21          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 9        | 6.21          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 15       | 6.21          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 15       | 6.21          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 1        | 6.21          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 1        | 6.21          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 6        | 6.21          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H     | 3        | 6.21          |
| (1,752)  | 1:A:3:PRO:HA   | 1:A:7:CYS:H     | 6        | 6.21          |
| (1,720)  | 1:A:2:GLY:HA3  | 1:A:13:GLY:H    | 17       | 6.21          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG   | 20       | 6.21          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG   | 20       | 6.21          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2   | 16       | 6.21          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2   | 16       | 6.21          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3   | 16       | 6.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 16       | 6.21          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 5        | 6.21          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 5        | 6.21          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 5        | 6.21          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 5        | 6.21          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2 | 7        | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 18       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 18       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 18       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 19       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 19       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 19       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 20       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 20       | 6.21          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 20       | 6.21          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE2 | 2        | 6.21          |
| (1,4594) | 1:A:25:TYR:HE1  | 1:A:31:LYS:HE3 | 2        | 6.21          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE2 | 2        | 6.21          |
| (1,4594) | 1:A:25:TYR:HE2  | 1:A:31:LYS:HE3 | 2        | 6.21          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 10       | 6.21          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 10       | 6.21          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 7        | 6.21          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 7        | 6.21          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 15       | 6.21          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 15       | 6.21          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 8        | 6.21          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 8        | 6.21          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 8        | 6.21          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 14       | 6.21          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 15       | 6.21          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 6        | 6.21          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 6        | 6.21          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 11       | 6.21          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 2        | 6.21          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 4        | 6.21          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 8        | 6.21          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 17       | 6.21          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 17       | 6.21          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 17       | 6.21          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 10       | 6.21          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 3        | 6.21          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 4        | 6.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ1  | 16       | 6.21          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ2  | 16       | 6.21          |
| (1,3879) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HZ3  | 16       | 6.21          |
| (1,3869) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HB3  | 15       | 6.21          |
| (1,3747) | 1:A:18:LEU:HG  | 1:A:29:GLY:HA3  | 14       | 6.21          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB2  | 16       | 6.21          |
| (1,3488) | 1:A:16:GLY:H   | 1:A:33:CYS:HB3  | 16       | 6.21          |
| (1,3456) | 1:A:16:GLY:H   | 1:A:20:CYS:H    | 13       | 6.21          |
| (1,3456) | 1:A:16:GLY:H   | 1:A:20:CYS:H    | 15       | 6.21          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2  | 4        | 6.21          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA   | 4        | 6.21          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H    | 14       | 6.21          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H    | 20       | 6.21          |
| (1,3292) | 1:A:15:ARG:HB2 | 1:A:20:CYS:H    | 10       | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 1        | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 1        | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 11       | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 11       | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 16       | 6.21          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 16       | 6.21          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 1        | 6.21          |
| (1,2649) | 1:A:11:TRP:HB2 | 1:A:21:SER:H    | 17       | 6.21          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 10       | 6.21          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 10       | 6.21          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 10       | 6.21          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 6        | 6.21          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 6        | 6.21          |
| (1,2027) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ3  | 17       | 6.21          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 20       | 6.21          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 20       | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 4        | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 4        | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 9        | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 9        | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 18       | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 18       | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 19       | 6.21          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 19       | 6.21          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 17       | 6.21          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA2  | 17       | 6.21          |
| (1,1802) | 1:A:6:GLN:HE21 | 1:A:12:GLY:HA3  | 17       | 6.21          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 14       | 6.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1797) | 1:A:6:GLN:HE21  | 1:A:9:PRO:HD3  | 14       | 6.21          |
| (1,1596) | 1:A:6:GLN:HB2   | 1:A:20:CYS:HB2 | 9        | 6.21          |
| (1,1469) | 1:A:5:GLY:HA3   | 1:A:11:TRP:HD1 | 15       | 6.21          |
| (1,1412) | 1:A:5:GLY:H     | 1:A:14:CYS:HB2 | 14       | 6.21          |
| (1,1409) | 1:A:5:GLY:H     | 1:A:12:GLY:H   | 11       | 6.21          |
| (1,1146) | 1:A:4:ASN:HB2   | 1:A:21:SER:HG  | 16       | 6.21          |
| (1,931)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:H   | 9        | 6.2           |
| (1,931)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:H   | 9        | 6.2           |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1 | 2        | 6.2           |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1 | 2        | 6.2           |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2 | 10       | 6.2           |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 5        | 6.2           |
| (1,752)  | 1:A:3:PRO:HA    | 1:A:7:CYS:H    | 10       | 6.2           |
| (1,642)  | 1:A:2:GLY:H     | 1:A:25:TYR:H   | 5        | 6.2           |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2 | 15       | 6.2           |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 15       | 6.2           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2  | 5        | 6.2           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2  | 5        | 6.2           |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3  | 5        | 6.2           |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3  | 5        | 6.2           |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE  | 12       | 6.2           |
| (1,4910) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:HB2 | 1        | 6.2           |
| (1,4910) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:HB2 | 1        | 6.2           |
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2 | 1        | 6.2           |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 11       | 6.2           |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 11       | 6.2           |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H   | 5        | 6.2           |
| (1,4415) | 1:A:23:TYR:HE1  | 1:A:26:CYS:H   | 14       | 6.2           |
| (1,4415) | 1:A:23:TYR:HE2  | 1:A:26:CYS:H   | 14       | 6.2           |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 11       | 6.2           |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 11       | 6.2           |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 6        | 6.2           |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 6        | 6.2           |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 7        | 6.2           |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 7        | 6.2           |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 9        | 6.2           |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 15       | 6.2           |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 3        | 6.2           |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 19       | 6.2           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 10       | 6.2           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 10       | 6.2           |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 10       | 6.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 10       | 6.2           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 10       | 6.2           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 10       | 6.2           |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 17       | 6.2           |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 20       | 6.2           |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H   | 7        | 6.2           |
| (1,3346) | 1:A:15:ARG:HB3  | 1:A:29:GLY:H   | 13       | 6.2           |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H   | 1        | 6.2           |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 3        | 6.2           |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 14       | 6.2           |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 17       | 6.2           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 16       | 6.2           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 16       | 6.2           |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 3        | 6.2           |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 3        | 6.2           |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG  | 17       | 6.2           |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB2 | 13       | 6.2           |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB3 | 13       | 6.2           |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB2 | 8        | 6.2           |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB3 | 8        | 6.2           |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB2 | 16       | 6.2           |
| (1,2752) | 1:A:11:TRP:HD1  | 1:A:26:CYS:HB3 | 16       | 6.2           |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H   | 7        | 6.2           |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H   | 18       | 6.2           |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H   | 19       | 6.2           |
| (1,2435) | 1:A:9:PRO:HD2   | 1:A:20:CYS:H   | 12       | 6.2           |
| (1,2435) | 1:A:9:PRO:HD3   | 1:A:20:CYS:H   | 12       | 6.2           |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG2 | 16       | 6.2           |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG3 | 16       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 2        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 2        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 3        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 3        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 5        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 5        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 6        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 6        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 7        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 7        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 8        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3   | 1:A:11:TRP:HZ2 | 8        | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2   | 1:A:11:TRP:HZ2 | 14       | 6.2           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 14       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2 | 16       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 16       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2 | 18       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 18       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2 | 19       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 19       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2 | 20       | 6.2           |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 20       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 16       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 16       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 18       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 18       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 19       | 6.2           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 19       | 6.2           |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 2        | 6.2           |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 2        | 6.2           |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2 | 20       | 6.2           |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3 | 20       | 6.2           |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 14       | 6.2           |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 14       | 6.2           |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H   | 13       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 1        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 1        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 4        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 4        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 9        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 9        | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 11       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 11       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 12       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 12       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 14       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 14       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 16       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 16       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 20       | 6.2           |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 20       | 6.2           |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 17       | 6.2           |
| (1,1592) | 1:A:6:GLN:HB2  | 1:A:14:CYS:H   | 17       | 6.2           |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3 | 2        | 6.2           |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2 | 4        | 6.2           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 7        | 6.2           |
| (1,1425) | 1:A:5:GLY:H    | 1:A:21:SER:H    | 10       | 6.2           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 1        | 6.2           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 1        | 6.2           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 1        | 6.2           |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 2        | 6.2           |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 16       | 6.2           |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 16       | 6.2           |
| (1,891)  | 1:A:3:PRO:HG2  | 1:A:7:CYS:H     | 2        | 6.19          |
| (1,891)  | 1:A:3:PRO:HG3  | 1:A:7:CYS:H     | 2        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 3        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 4        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 4        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 4        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 4        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 4        | 6.19          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 4        | 6.19          |
| (1,642)  | 1:A:2:GLY:H    | 1:A:25:TYR:H    | 10       | 6.19          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 20       | 6.19          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 20       | 6.19          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 1        | 6.19          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 10       | 6.19          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 12       | 6.19          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 12       | 6.19          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 12       | 6.19          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 12       | 6.19          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 4        | 6.19          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 4        | 6.19          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 16       | 6.19          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 17       | 6.19          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 17       | 6.19          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 11       | 6.19          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 11       | 6.19          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 11       | 6.19          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2  | 11       | 6.19          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2  | 11       | 6.19          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3  | 11       | 6.19          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3  | 11       | 6.19          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H    | 2        | 6.19          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H    | 3        | 6.19          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB2  | 5        | 6.19          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2  | 5        | 6.19          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3  | 5        | 6.19          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3  | 5        | 6.19          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA   | 19       | 6.19          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA   | 19       | 6.19          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H    | 5        | 6.19          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H    | 5        | 6.19          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2  | 19       | 6.19          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3  | 19       | 6.19          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2  | 19       | 6.19          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 19       | 6.19          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 3        | 6.19          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 10       | 6.19          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA   | 14       | 6.19          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA   | 8        | 6.19          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 6        | 6.19          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 5        | 6.19          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 5        | 6.19          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 17       | 6.19          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 16       | 6.19          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 16       | 6.19          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 16       | 6.19          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 6        | 6.19          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 6        | 6.19          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 6        | 6.19          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 12       | 6.19          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2  | 12       | 6.19          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H    | 1        | 6.19          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 14       | 6.19          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 14       | 6.19          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA   | 20       | 6.19          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA   | 20       | 6.19          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 7        | 6.19          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 18       | 6.19          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 19       | 6.19          |
| (1,3224) | 1:A:14:CYS:HB2  | 1:A:35:HIS:H    | 20       | 6.19          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1  | 4        | 6.19          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2  | 4        | 6.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 6        | 6.19          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 6        | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 13       | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 13       | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 13       | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 13       | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 13       | 6.19          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 13       | 6.19          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 16       | 6.19          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 20       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 1        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 1        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 4        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 4        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 9        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 9        | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 10       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 10       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 11       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 11       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 12       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 12       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 13       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 13       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2  | 15       | 6.19          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2  | 15       | 6.19          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 2        | 6.19          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 2        | 6.19          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 5        | 6.19          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 5        | 6.19          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 17       | 6.19          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG2  | 11       | 6.19          |
| (1,1931) | 1:A:7:CYS:H    | 1:A:15:ARG:HG3  | 11       | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 2        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 2        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 3        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 3        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 7        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 7        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 8        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 8        | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 10       | 6.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 10       | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 18       | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 18       | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 19       | 6.19          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 19       | 6.19          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 14       | 6.19          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 9        | 6.19          |
| (1,1409) | 1:A:5:GLY:H    | 1:A:12:GLY:H    | 13       | 6.19          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 11       | 6.19          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD11 | 20       | 6.19          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD12 | 20       | 6.19          |
| (1,1272) | 1:A:4:ASN:HD21 | 1:A:18:LEU:HD13 | 20       | 6.19          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 8        | 6.19          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 10       | 6.19          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 16       | 6.19          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 18       | 6.19          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 20       | 6.19          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 17       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 14       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 14       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 14       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 14       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 14       | 6.18          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 14       | 6.18          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 5        | 6.18          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3  | 5        | 6.18          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3  | 5        | 6.18          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2   | 15       | 6.18          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2   | 15       | 6.18          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3   | 15       | 6.18          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3   | 15       | 6.18          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 10       | 6.18          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 10       | 6.18          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 8        | 6.18          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 8        | 6.18          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 8        | 6.18          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 13       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 10       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 10       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 18       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 18       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 19       | 6.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 19       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 20       | 6.18          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 20       | 6.18          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB1  | 1        | 6.18          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB2  | 1        | 6.18          |
| (1,4737) | 1:A:28:SER:H   | 1:A:34:ALA:HB3  | 1        | 6.18          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 10       | 6.18          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 10       | 6.18          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 10       | 6.18          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 6        | 6.18          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 17       | 6.18          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2  | 7        | 6.18          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2  | 7        | 6.18          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3  | 7        | 6.18          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB3  | 7        | 6.18          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 16       | 6.18          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 16       | 6.18          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG2  | 2        | 6.18          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG3  | 2        | 6.18          |
| (1,4262) | 1:A:22:GLN:HG3 | 1:A:32:TYR:H    | 15       | 6.18          |
| (1,4151) | 1:A:22:GLN:HA  | 1:A:33:CYS:H    | 13       | 6.18          |
| (1,4033) | 1:A:21:SER:H   | 1:A:31:LYS:HA   | 15       | 6.18          |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE21 | 9        | 6.18          |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE22 | 9        | 6.18          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3  | 16       | 6.18          |
| (1,3902) | 1:A:19:CYS:HB3 | 1:A:30:PRO:HD3  | 20       | 6.18          |
| (1,3865) | 1:A:19:CYS:HA  | 1:A:35:HIS:H    | 13       | 6.18          |
| (1,3729) | 1:A:18:LEU:HG  | 1:A:21:SER:H    | 6        | 6.18          |
| (1,3678) | 1:A:18:LEU:HB2 | 1:A:21:SER:HG   | 9        | 6.18          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H    | 2        | 6.18          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H    | 4        | 6.18          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H    | 10       | 6.18          |
| (1,3407) | 1:A:15:ARG:HD2 | 1:A:28:SER:H    | 13       | 6.18          |
| (1,3407) | 1:A:15:ARG:HD3 | 1:A:28:SER:H    | 13       | 6.18          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H    | 13       | 6.18          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H    | 13       | 6.18          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA   | 17       | 6.18          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA   | 17       | 6.18          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2  | 20       | 6.18          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3  | 20       | 6.18          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H    | 10       | 6.18          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 9        | 6.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 1        | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD11 | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD12 | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD13 | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD21 | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD22 | 11       | 6.18          |
| (1,2994) | 1:A:12:GLY:H   | 1:A:18:LEU:HD23 | 11       | 6.18          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 8        | 6.18          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 10       | 6.18          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 10       | 6.18          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB1  | 8        | 6.18          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB2  | 8        | 6.18          |
| (1,2018) | 1:A:7:CYS:HB2  | 1:A:34:ALA:HB3  | 8        | 6.18          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB1  | 8        | 6.18          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB2  | 8        | 6.18          |
| (1,2018) | 1:A:7:CYS:HB3  | 1:A:34:ALA:HB3  | 8        | 6.18          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 6        | 6.18          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 6        | 6.18          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 7        | 6.18          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 7        | 6.18          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H    | 17       | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 5        | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 5        | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 6        | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 6        | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 15       | 6.18          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 15       | 6.18          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 12       | 6.18          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 12       | 6.18          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD1  | 15       | 6.18          |
| (1,1654) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HD2  | 15       | 6.18          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 13       | 6.18          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 15       | 6.18          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 15       | 6.18          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 12       | 6.18          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 4        | 6.18          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1 | 14       | 6.18          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2 | 14       | 6.18          |
| (1,1211) | 1:A:4:ASN:HB3   | 1:A:21:SER:HG  | 17       | 6.18          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2 | 16       | 6.18          |
| (1,1146) | 1:A:4:ASN:HB2   | 1:A:21:SER:HG  | 10       | 6.18          |
| (1,999)  | 1:A:3:PRO:HD3   | 1:A:7:CYS:H    | 3        | 6.17          |
| (1,933)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:HB2 | 8        | 6.17          |
| (1,933)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:HB2 | 8        | 6.17          |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1 | 14       | 6.17          |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1 | 14       | 6.17          |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1 | 17       | 6.17          |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1 | 17       | 6.17          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H    | 6        | 6.17          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H    | 6        | 6.17          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H    | 10       | 6.17          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H    | 10       | 6.17          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 3        | 6.17          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 3        | 6.17          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 17       | 6.17          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 17       | 6.17          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 15       | 6.17          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 15       | 6.17          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE1 | 16       | 6.17          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE2 | 16       | 6.17          |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1 | 18       | 6.17          |
| (1,4746) | 1:A:28:SER:HB2  | 1:A:35:HIS:H   | 10       | 6.17          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB1 | 9        | 6.17          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB2 | 9        | 6.17          |
| (1,4737) | 1:A:28:SER:H    | 1:A:34:ALA:HB3 | 9        | 6.17          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 2        | 6.17          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 2        | 6.17          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 17       | 6.17          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H   | 2        | 6.17          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H   | 2        | 6.17          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 9        | 6.17          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 9        | 6.17          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 12       | 6.17          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 12       | 6.17          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 6        | 6.17          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H   | 15       | 6.17          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 17       | 6.17          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA  | 13       | 6.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 16       | 6.17          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 18       | 6.17          |
| (1,3902) | 1:A:19:CYS:HB3  | 1:A:30:PRO:HD3 | 19       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 19       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 19       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 19       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 20       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 20       | 6.17          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 20       | 6.17          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 2        | 6.17          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 2        | 6.17          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 2        | 6.17          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 5        | 6.17          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 5        | 6.17          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 5        | 6.17          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 9        | 6.17          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 9        | 6.17          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 8        | 6.17          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG  | 12       | 6.17          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 14       | 6.17          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 3        | 6.17          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 4        | 6.17          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 11       | 6.17          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA  | 2        | 6.17          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 13       | 6.17          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 18       | 6.17          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 18       | 6.17          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 20       | 6.17          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 20       | 6.17          |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H   | 9        | 6.17          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2 | 7        | 6.17          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3 | 7        | 6.17          |
| (1,2435) | 1:A:9:PRO:HD2   | 1:A:20:CYS:H   | 15       | 6.17          |
| (1,2435) | 1:A:9:PRO:HD3   | 1:A:20:CYS:H   | 15       | 6.17          |
| (1,2090) | 1:A:8:GLY:HA2   | 1:A:26:CYS:H   | 12       | 6.17          |
| (1,2090) | 1:A:8:GLY:HA2   | 1:A:26:CYS:H   | 15       | 6.17          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD1 | 1        | 6.17          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD2 | 1        | 6.17          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD1 | 2        | 6.17          |
| (1,2089) | 1:A:8:GLY:HA2   | 1:A:25:TYR:HD2 | 2        | 6.17          |
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA  | 13       | 6.17          |
| (1,1587) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HG2  | 17       | 6.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1587) | 1:A:6:GLN:HB2   | 1:A:9:PRO:HG3  | 17       | 6.17          |
| (1,1526) | 1:A:6:GLN:H     | 1:A:23:TYR:HB3 | 3        | 6.17          |
| (1,1520) | 1:A:6:GLN:H     | 1:A:20:CYS:HB2 | 3        | 6.17          |
| (1,1494) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HB3 | 11       | 6.17          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG2 | 18       | 6.17          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG3 | 18       | 6.17          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H   | 6        | 6.17          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H   | 13       | 6.17          |
| (1,1407) | 1:A:5:GLY:H     | 1:A:11:TRP:HE1 | 15       | 6.17          |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H    | 6        | 6.17          |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H    | 11       | 6.17          |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H    | 19       | 6.17          |
| (1,1193) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ2 | 12       | 6.17          |
| (1,1146) | 1:A:4:ASN:HB2   | 1:A:21:SER:HG  | 18       | 6.17          |
| (1,1093) | 1:A:4:ASN:H     | 1:A:26:CYS:HA  | 19       | 6.17          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1 | 20       | 6.17          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2 | 20       | 6.17          |
| (1,891)  | 1:A:3:PRO:HG2   | 1:A:7:CYS:H    | 5        | 6.16          |
| (1,891)  | 1:A:3:PRO:HG3   | 1:A:7:CYS:H    | 5        | 6.16          |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2 | 5        | 6.16          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 19       | 6.16          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 19       | 6.16          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2 | 2        | 6.16          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 2        | 6.16          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2 | 9        | 6.16          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3 | 9        | 6.16          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 8        | 6.16          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 8        | 6.16          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 20       | 6.16          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 20       | 6.16          |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 1        | 6.16          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 18       | 6.16          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H   | 4        | 6.16          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 1        | 6.16          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 1        | 6.16          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 4        | 6.16          |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 4        | 6.16          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD2 | 15       | 6.16          |
| (1,4318) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HD3 | 15       | 6.16          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2 | 17       | 6.16          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3 | 17       | 6.16          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 2        | 6.16          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 11       | 6.16          |
| (1,4173) | 1:A:22:GLN:HB2  | 1:A:26:CYS:HA   | 6        | 6.16          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 9        | 6.16          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 16       | 6.16          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 18       | 6.16          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 19       | 6.16          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 20       | 6.16          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 10       | 6.16          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3  | 6        | 6.16          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 18       | 6.16          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 18       | 6.16          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 18       | 6.16          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 5        | 6.16          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H    | 15       | 6.16          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 12       | 6.16          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H    | 3        | 6.16          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 13       | 6.16          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H    | 16       | 6.16          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H    | 20       | 6.16          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H    | 20       | 6.16          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 2        | 6.16          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA   | 6        | 6.16          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H    | 20       | 6.16          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1  | 8        | 6.16          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2  | 8        | 6.16          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1  | 19       | 6.16          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2  | 19       | 6.16          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB2  | 13       | 6.16          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB3  | 13       | 6.16          |
| (1,3116) | 1:A:13:GLY:H    | 1:A:26:CYS:H    | 20       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD11 | 17       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD12 | 17       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD13 | 17       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD21 | 17       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD22 | 17       | 6.16          |
| (1,2994) | 1:A:12:GLY:H    | 1:A:18:LEU:HD23 | 17       | 6.16          |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H    | 12       | 6.16          |
| (1,2435) | 1:A:9:PRO:HD2   | 1:A:20:CYS:H    | 11       | 6.16          |
| (1,2435) | 1:A:9:PRO:HD3   | 1:A:20:CYS:H    | 11       | 6.16          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE1  | 15       | 6.16          |
| (1,2058) | 1:A:8:GLY:H     | 1:A:25:TYR:HE2  | 15       | 6.16          |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG2  | 7        | 6.16          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 7        | 6.16          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 1        | 6.16          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 1        | 6.16          |
| (1,1981) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ3  | 17       | 6.16          |
| (1,1981) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ3  | 17       | 6.16          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 4        | 6.16          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 4        | 6.16          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 10       | 6.16          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 10       | 6.16          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 12       | 6.16          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 1        | 6.16          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 2        | 6.16          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 4        | 6.16          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 1        | 6.16          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 11       | 6.16          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 7        | 6.16          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 7        | 6.16          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 2        | 6.16          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 5        | 6.16          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 13       | 6.16          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 18       | 6.16          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 18       | 6.16          |
| (1,1226) | 1:A:4:ASN:HB3  | 1:A:27:GLY:HA2  | 19       | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 6        | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 6        | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 6        | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 12       | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 12       | 6.16          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 12       | 6.16          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD1  | 15       | 6.16          |
| (1,1155) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HD2  | 15       | 6.16          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 6        | 6.16          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 14       | 6.15          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 8        | 6.15          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 8        | 6.15          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 6        | 6.15          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 6        | 6.15          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 4        | 6.15          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 11       | 6.15          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 8        | 6.15          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 8        | 6.15          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2  | 11       | 6.15          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 11       | 6.15          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2 | 12       | 6.15          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 12       | 6.15          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA   | 14       | 6.15          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA   | 20       | 6.15          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1 | 9        | 6.15          |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2 | 9        | 6.15          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3 | 10       | 6.15          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 10       | 6.15          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB2 | 14       | 6.15          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB3 | 14       | 6.15          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 16       | 6.15          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 19       | 6.15          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 19       | 6.15          |
| (1,4697) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HG2 | 14       | 6.15          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H   | 11       | 6.15          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 5        | 6.15          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 5        | 6.15          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 16       | 6.15          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 16       | 6.15          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 12       | 6.15          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 12       | 6.15          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 18       | 6.15          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 18       | 6.15          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 20       | 6.15          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 20       | 6.15          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 15       | 6.15          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 10       | 6.15          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 19       | 6.15          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 19       | 6.15          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 5        | 6.15          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 19       | 6.15          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 5        | 6.15          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 7        | 6.15          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 7        | 6.15          |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 4        | 6.15          |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 4        | 6.15          |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 4        | 6.15          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 16       | 6.15          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 8        | 6.15          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 8        | 6.15          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 18       | 6.15          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 18       | 6.15          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2  | 9        | 6.15          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3  | 9        | 6.15          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2  | 12       | 6.15          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3  | 12       | 6.15          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H    | 15       | 6.15          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 9        | 6.15          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 9        | 6.15          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 1        | 6.15          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 1        | 6.15          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 10       | 6.15          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 14       | 6.15          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 12       | 6.15          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 12       | 6.15          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 12       | 6.15          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 6        | 6.15          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 10       | 6.15          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3  | 14       | 6.15          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 1        | 6.15          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 10       | 6.15          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 20       | 6.15          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 20       | 6.15          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 20       | 6.15          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 12       | 6.15          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 16       | 6.15          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 19       | 6.15          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 1        | 6.15          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 1        | 6.15          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 9        | 6.15          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 9        | 6.15          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 16       | 6.15          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 5        | 6.15          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 7        | 6.15          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 19       | 6.15          |
| (1,1093) | 1:A:4:ASN:H    | 1:A:26:CYS:HA   | 7        | 6.15          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 10       | 6.14          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 10       | 6.14          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 15       | 6.14          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 15       | 6.14          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 7        | 6.14          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 7        | 6.14          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1  | 4        | 6.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA  | 4        | 6.14          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA  | 4        | 6.14          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA  | 12       | 6.14          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA  | 12       | 6.14          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2 | 8        | 6.14          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3 | 8        | 6.14          |
| (1,4649) | 1:A:26:CYS:HA  | 1:A:35:HIS:HB2 | 20       | 6.14          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 13       | 6.14          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 13       | 6.14          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 13       | 6.14          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 13       | 6.14          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE2 | 4        | 6.14          |
| (1,4519) | 1:A:25:TYR:H   | 1:A:31:LYS:HE3 | 4        | 6.14          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 1        | 6.14          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG2 | 15       | 6.14          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG2 | 15       | 6.14          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG3 | 15       | 6.14          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG3 | 15       | 6.14          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2 | 15       | 6.14          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3 | 15       | 6.14          |
| (1,4170) | 1:A:22:GLN:HG2 | 1:A:26:CYS:H   | 3        | 6.14          |
| (1,4151) | 1:A:22:GLN:HA  | 1:A:33:CYS:H   | 11       | 6.14          |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H   | 7        | 6.14          |
| (1,3668) | 1:A:18:LEU:HA  | 1:A:25:TYR:HB3 | 6        | 6.14          |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 18       | 6.14          |
| (1,3655) | 1:A:18:LEU:H   | 1:A:29:GLY:HA3 | 19       | 6.14          |
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H   | 17       | 6.14          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H   | 17       | 6.14          |
| (1,3326) | 1:A:15:ARG:HB3 | 1:A:20:CYS:H   | 1        | 6.14          |
| (1,3307) | 1:A:15:ARG:HB2 | 1:A:27:GLY:HA2 | 10       | 6.14          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA  | 5        | 6.14          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB2 | 8        | 6.14          |
| (1,3268) | 1:A:15:ARG:H   | 1:A:25:TYR:HB3 | 8        | 6.14          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H   | 1        | 6.14          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 8        | 6.14          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 13       | 6.14          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 6        | 6.14          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 6        | 6.14          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 11       | 6.14          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 11       | 6.14          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 2        | 6.14          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 5        | 6.14          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 19       | 6.14          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 19       | 6.14          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 3        | 6.14          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 3        | 6.14          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 13       | 6.14          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 13       | 6.14          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 12       | 6.14          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 12       | 6.14          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 11       | 6.14          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 11       | 6.14          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 12       | 6.14          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 12       | 6.14          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 9        | 6.14          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 14       | 6.14          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 11       | 6.14          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 15       | 6.14          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 12       | 6.14          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 12       | 6.14          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 12       | 6.14          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 2        | 6.14          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 9        | 6.14          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 7        | 6.14          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 8        | 6.14          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 18       | 6.14          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 20       | 6.14          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 7        | 6.14          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 17       | 6.14          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 12       | 6.14          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 12       | 6.14          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 15       | 6.14          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 2        | 6.14          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 2        | 6.14          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 18       | 6.14          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 18       | 6.14          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 2        | 6.13          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 18       | 6.13          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 18       | 6.13          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 20       | 6.13          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 20       | 6.13          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 6        | 6.13          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 6        | 6.13          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 6        | 6.13          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD21 | 6        | 6.13          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD22 | 6        | 6.13          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD23 | 6        | 6.13          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2  | 18       | 6.13          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3  | 18       | 6.13          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 15       | 6.13          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 19       | 6.13          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2   | 10       | 6.13          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2   | 10       | 6.13          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3   | 10       | 6.13          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3   | 10       | 6.13          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 14       | 6.13          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 14       | 6.13          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 17       | 6.13          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB2  | 19       | 6.13          |
| (1,4739) | 1:A:28:SER:H    | 1:A:35:HIS:HB3  | 19       | 6.13          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA   | 6        | 6.13          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA   | 6        | 6.13          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H    | 18       | 6.13          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H    | 18       | 6.13          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H    | 20       | 6.13          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H    | 20       | 6.13          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1  | 7        | 6.13          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB2  | 1        | 6.13          |
| (1,4296) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HB3  | 1        | 6.13          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 14       | 6.13          |
| (1,4151) | 1:A:22:GLN:HA   | 1:A:33:CYS:H    | 1        | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 8        | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 9        | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 16       | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 18       | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 19       | 6.13          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 20       | 6.13          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 13       | 6.13          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 13       | 6.13          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 11       | 6.13          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 18       | 6.13          |
| (1,3869) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HB3  | 16       | 6.13          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 8        | 6.13          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2  | 8        | 6.13          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3  | 13       | 6.13          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 16       | 6.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 18       | 6.13          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 19       | 6.13          |
| (1,3571) | 1:A:17:GLY:H   | 1:A:28:SER:H   | 2        | 6.13          |
| (1,3571) | 1:A:17:GLY:H   | 1:A:28:SER:H   | 6        | 6.13          |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H   | 10       | 6.13          |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H   | 10       | 6.13          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1 | 2        | 6.13          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2 | 2        | 6.13          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H   | 12       | 6.13          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 15       | 6.13          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 4        | 6.13          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 4        | 6.13          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2 | 3        | 6.13          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 3        | 6.13          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2 | 6        | 6.13          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 6        | 6.13          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 3        | 6.13          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 3        | 6.13          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 4        | 6.13          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 4        | 6.13          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG2 | 9        | 6.13          |
| (1,2679) | 1:A:11:TRP:HB3 | 1:A:15:ARG:HG3 | 9        | 6.13          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD1 | 17       | 6.13          |
| (1,2440) | 1:A:9:PRO:HD2  | 1:A:23:TYR:HD2 | 17       | 6.13          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD1 | 17       | 6.13          |
| (1,2440) | 1:A:9:PRO:HD3  | 1:A:23:TYR:HD2 | 17       | 6.13          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 1        | 6.13          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 1        | 6.13          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 6        | 6.13          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 10       | 6.13          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 1        | 6.13          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 1        | 6.13          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2 | 7        | 6.13          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3 | 7        | 6.13          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2  | 16       | 6.13          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3  | 16       | 6.13          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA  | 19       | 6.13          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 4        | 6.13          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 4        | 6.13          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG  | 3        | 6.13          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG  | 4        | 6.13          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG  | 8        | 6.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG  | 20       | 6.13          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2 | 5        | 6.13          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3 | 5        | 6.13          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3 | 9        | 6.13          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3 | 13       | 6.13          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 12       | 6.13          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 19       | 6.13          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 3        | 6.13          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 3        | 6.13          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 2        | 6.13          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 5        | 6.13          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 6        | 6.13          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 10       | 6.13          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 10       | 6.13          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2 | 16       | 6.12          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2 | 16       | 6.12          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2 | 19       | 6.12          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2 | 19       | 6.12          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA   | 16       | 6.12          |
| (1,578)  | 1:A:1:SER:HB2  | 1:A:27:GLY:HA3 | 10       | 6.12          |
| (1,578)  | 1:A:1:SER:HB3  | 1:A:27:GLY:HA3 | 10       | 6.12          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB2  | 16       | 6.12          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB2  | 16       | 6.12          |
| (1,542)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HB3  | 16       | 6.12          |
| (1,542)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HB3  | 16       | 6.12          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1 | 9        | 6.12          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1 | 9        | 6.12          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1 | 8        | 6.12          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 11       | 6.12          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3 | 15       | 6.12          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 13       | 6.12          |
| (1,4200) | 1:A:22:GLN:HG2 | 1:A:33:CYS:H   | 10       | 6.12          |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H   | 12       | 6.12          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB1 | 10       | 6.12          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB2 | 10       | 6.12          |
| (1,4098) | 1:A:21:SER:HG  | 1:A:34:ALA:HB3 | 10       | 6.12          |
| (1,4033) | 1:A:21:SER:H   | 1:A:31:LYS:HA  | 4        | 6.12          |
| (1,3958) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HB2 | 7        | 6.12          |
| (1,3958) | 1:A:20:CYS:HB2 | 1:A:23:TYR:HB2 | 9        | 6.12          |
| (1,3948) | 1:A:20:CYS:H   | 1:A:35:HIS:HB2 | 3        | 6.12          |
| (1,3947) | 1:A:20:CYS:H   | 1:A:35:HIS:HA  | 7        | 6.12          |
| (1,3869) | 1:A:19:CYS:HB2 | 1:A:22:GLN:HB3 | 3        | 6.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 1        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 1        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 1        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 9        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 9        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 9        | 6.12          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 17       | 6.12          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 17       | 6.12          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 17       | 6.12          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 4        | 6.12          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 4        | 6.12          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 4        | 6.12          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 15       | 6.12          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 15       | 6.12          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 15       | 6.12          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 6        | 6.12          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 6        | 6.12          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 11       | 6.12          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 11       | 6.12          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 3        | 6.12          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 8        | 6.12          |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA  | 20       | 6.12          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H   | 20       | 6.12          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 7        | 6.12          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 8        | 6.12          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 8        | 6.12          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 4        | 6.12          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 4        | 6.12          |
| (1,3387) | 1:A:15:ARG:HG2  | 1:A:33:CYS:HA  | 18       | 6.12          |
| (1,3387) | 1:A:15:ARG:HG3  | 1:A:33:CYS:HA  | 18       | 6.12          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 16       | 6.12          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 16       | 6.12          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 16       | 6.12          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 18       | 6.12          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H   | 19       | 6.12          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 10       | 6.12          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 10       | 6.12          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 1        | 6.12          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H   | 8        | 6.12          |
| (1,3116) | 1:A:13:GLY:H    | 1:A:26:CYS:H   | 16       | 6.12          |
| (1,3116) | 1:A:13:GLY:H    | 1:A:26:CYS:H   | 18       | 6.12          |
| (1,3116) | 1:A:13:GLY:H    | 1:A:26:CYS:H   | 19       | 6.12          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 13       | 6.12          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 13       | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 2        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 2        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 4        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 4        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 5        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 5        | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 10       | 6.12          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 10       | 6.12          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 1        | 6.12          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 1        | 6.12          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 15       | 6.12          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 15       | 6.12          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 12       | 6.12          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 12       | 6.12          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 12       | 6.12          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 4        | 6.12          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 17       | 6.12          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB2  | 14       | 6.12          |
| (1,1950) | 1:A:7:CYS:H    | 1:A:22:GLN:HB3  | 14       | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 7        | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 7        | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 8        | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 8        | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 19       | 6.12          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 19       | 6.12          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 7        | 6.12          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 8        | 6.12          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 16       | 6.12          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 18       | 6.12          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 3        | 6.12          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 5        | 6.12          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 18       | 6.12          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 15       | 6.12          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 15       | 6.12          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 18       | 6.12          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 18       | 6.12          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 14       | 6.12          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 10       | 6.12          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 19       | 6.12          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 19       | 6.12          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H    | 4        | 6.11          |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1  | 5        | 6.11          |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1  | 5        | 6.11          |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1  | 11       | 6.11          |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1  | 11       | 6.11          |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2  | 13       | 6.11          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2  | 12       | 6.11          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3  | 12       | 6.11          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2  | 11       | 6.11          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3  | 11       | 6.11          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 7        | 6.11          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 13       | 6.11          |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA    | 18       | 6.11          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG2   | 10       | 6.11          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG2   | 10       | 6.11          |
| (1,543)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HG3   | 10       | 6.11          |
| (1,543)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HG3   | 10       | 6.11          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3  | 8        | 6.11          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3  | 20       | 6.11          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H    | 18       | 6.11          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 4        | 6.11          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 4        | 6.11          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 4        | 6.11          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 4        | 6.11          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 3        | 6.11          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 3        | 6.11          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H    | 17       | 6.11          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 5        | 6.11          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 5        | 6.11          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 15       | 6.11          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 1        | 6.11          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2  | 6        | 6.11          |
| (1,4033) | 1:A:21:SER:H    | 1:A:31:LYS:HA   | 2        | 6.11          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 16       | 6.11          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1  | 13       | 6.11          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 14       | 6.11          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 1        | 6.11          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 1        | 6.11          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 16       | 6.11          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 3        | 6.11          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 3        | 6.11          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 3        | 6.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE1 | 13       | 6.11          |
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE2 | 13       | 6.11          |
| (1,3668) | 1:A:18:LEU:HA  | 1:A:25:TYR:HB3 | 1        | 6.11          |
| (1,3668) | 1:A:18:LEU:HA  | 1:A:25:TYR:HB3 | 4        | 6.11          |
| (1,3668) | 1:A:18:LEU:HA  | 1:A:25:TYR:HB3 | 11       | 6.11          |
| (1,3606) | 1:A:17:GLY:HA2 | 1:A:26:CYS:HA  | 7        | 6.11          |
| (1,3398) | 1:A:15:ARG:HD2 | 1:A:21:SER:H   | 1        | 6.11          |
| (1,3398) | 1:A:15:ARG:HD3 | 1:A:21:SER:H   | 1        | 6.11          |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H   | 14       | 6.11          |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H   | 14       | 6.11          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA  | 17       | 6.11          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1 | 5        | 6.11          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2 | 5        | 6.11          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1 | 7        | 6.11          |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2 | 7        | 6.11          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 12       | 6.11          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 20       | 6.11          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2 | 11       | 6.11          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3 | 11       | 6.11          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 7        | 6.11          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 3        | 6.11          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 3        | 6.11          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2 | 1        | 6.11          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3 | 1        | 6.11          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 2        | 6.11          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 2        | 6.11          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 11       | 6.11          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 11       | 6.11          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 3        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 2        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 3        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 4        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 5        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 6        | 6.11          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA  | 10       | 6.11          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H   | 13       | 6.11          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2  | 1        | 6.11          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3  | 1        | 6.11          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2  | 18       | 6.11          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3  | 18       | 6.11          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA  | 9        | 6.11          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA  | 15       | 6.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1723) | 1:A:6:GLN:HG2   | 1:A:26:CYS:HA  | 20       | 6.11          |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB2 | 6        | 6.11          |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB3 | 6        | 6.11          |
| (1,1598) | 1:A:6:GLN:HB2   | 1:A:21:SER:HG  | 6        | 6.11          |
| (1,1598) | 1:A:6:GLN:HB2   | 1:A:21:SER:HG  | 18       | 6.11          |
| (1,1598) | 1:A:6:GLN:HB2   | 1:A:21:SER:HG  | 19       | 6.11          |
| (1,1597) | 1:A:6:GLN:HB2   | 1:A:21:SER:H   | 4        | 6.11          |
| (1,1597) | 1:A:6:GLN:HB2   | 1:A:21:SER:H   | 6        | 6.11          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3 | 4        | 6.11          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD2 | 7        | 6.11          |
| (1,1514) | 1:A:6:GLN:H     | 1:A:15:ARG:HD3 | 7        | 6.11          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H   | 10       | 6.11          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H   | 11       | 6.11          |
| (1,1410) | 1:A:5:GLY:H     | 1:A:12:GLY:HA3 | 8        | 6.11          |
| (1,931)  | 1:A:3:PRO:HG2   | 1:A:26:CYS:H   | 20       | 6.1           |
| (1,931)  | 1:A:3:PRO:HG3   | 1:A:26:CYS:H   | 20       | 6.1           |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1 | 13       | 6.1           |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1 | 13       | 6.1           |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2 | 14       | 6.1           |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2 | 1        | 6.1           |
| (1,604)  | 1:A:2:GLY:H     | 1:A:9:PRO:HA   | 11       | 6.1           |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H   | 8        | 6.1           |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H   | 8        | 6.1           |
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H   | 17       | 6.1           |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H   | 17       | 6.1           |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 20       | 6.1           |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 20       | 6.1           |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 20       | 6.1           |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 1        | 6.1           |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 3        | 6.1           |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 1        | 6.1           |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 13       | 6.1           |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 7        | 6.1           |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 7        | 6.1           |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 11       | 6.1           |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 11       | 6.1           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG2 | 20       | 6.1           |
| (1,4391) | 1:A:23:TYR:HB3  | 1:A:31:LYS:HG3 | 20       | 6.1           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 2        | 6.1           |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 2        | 6.1           |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 9        | 6.1           |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 9        | 6.1           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 7        | 6.1           |
| (1,4153) | 1:A:22:GLN:HA   | 1:A:34:ALA:H    | 16       | 6.1           |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 13       | 6.1           |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 14       | 6.1           |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 8        | 6.1           |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 16       | 6.1           |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 8        | 6.1           |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 13       | 6.1           |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 20       | 6.1           |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2  | 1        | 6.1           |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 2        | 6.1           |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 2        | 6.1           |
| (1,3802) | 1:A:18:LEU:HD21 | 1:A:22:GLN:H    | 14       | 6.1           |
| (1,3802) | 1:A:18:LEU:HD22 | 1:A:22:GLN:H    | 14       | 6.1           |
| (1,3802) | 1:A:18:LEU:HD23 | 1:A:22:GLN:H    | 14       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 11       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 11       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 11       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 20       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 20       | 6.1           |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 20       | 6.1           |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H    | 10       | 6.1           |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H    | 10       | 6.1           |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H    | 10       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 13       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 16       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 16       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 16       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 16       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 16       | 6.1           |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 16       | 6.1           |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 11       | 6.1           |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 13       | 6.1           |
| (1,3606) | 1:A:17:GLY:HA2  | 1:A:26:CYS:HA   | 9        | 6.1           |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 1        | 6.1           |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3  | 14       | 6.1           |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG   | 12       | 6.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD1  | 5        | 6.1           |
| (1,3207) | 1:A:14:CYS:HB2 | 1:A:25:TYR:HD2  | 5        | 6.1           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 15       | 6.1           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 15       | 6.1           |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 9        | 6.1           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 12       | 6.1           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 12       | 6.1           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 15       | 6.1           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 15       | 6.1           |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 6        | 6.1           |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 10       | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 7        | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 8        | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 9        | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 12       | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 14       | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 18       | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 19       | 6.1           |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 20       | 6.1           |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3  | 17       | 6.1           |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 2        | 6.1           |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 10       | 6.1           |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 11       | 6.1           |
| (1,1999) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HB3  | 17       | 6.1           |
| (1,1999) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HB3  | 17       | 6.1           |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 11       | 6.1           |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 11       | 6.1           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 8        | 6.1           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 8        | 6.1           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 9        | 6.1           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 9        | 6.1           |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 20       | 6.1           |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 20       | 6.1           |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 13       | 6.1           |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 16       | 6.1           |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 7        | 6.1           |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 13       | 6.1           |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 17       | 6.1           |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 17       | 6.1           |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 3        | 6.1           |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 3        | 6.1           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 17       | 6.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 17       | 6.1           |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 17       | 6.1           |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 13       | 6.1           |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 6        | 6.09          |
| (1,933)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:HB2  | 7        | 6.09          |
| (1,933)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:HB2  | 7        | 6.09          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 16       | 6.09          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 16       | 6.09          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 18       | 6.09          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 18       | 6.09          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 17       | 6.09          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 3        | 6.09          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 13       | 6.09          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 16       | 6.09          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 16       | 6.09          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2  | 18       | 6.09          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3  | 18       | 6.09          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 8        | 6.09          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 7        | 6.09          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 7        | 6.09          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 11       | 6.09          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 18       | 6.09          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 18       | 6.09          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB2  | 20       | 6.09          |
| (1,4739) | 1:A:28:SER:H   | 1:A:35:HIS:HB3  | 20       | 6.09          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA   | 11       | 6.09          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA   | 15       | 6.09          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2  | 18       | 6.09          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2  | 18       | 6.09          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3  | 18       | 6.09          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3  | 18       | 6.09          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 16       | 6.09          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG2  | 4        | 6.09          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG3  | 4        | 6.09          |
| (1,4250) | 1:A:22:GLN:HG3 | 1:A:25:TYR:HB3  | 15       | 6.09          |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H    | 1        | 6.09          |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H    | 11       | 6.09          |
| (1,4089) | 1:A:21:SER:HG  | 1:A:31:LYS:HD2  | 4        | 6.09          |
| (1,4089) | 1:A:21:SER:HG  | 1:A:31:LYS:HD3  | 4        | 6.09          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2  | 3        | 6.09          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB3  | 3        | 6.09          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 4        | 6.09          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 4        | 6.09          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 14       | 6.09          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 18       | 6.09          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 19       | 6.09          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 20       | 6.09          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 1        | 6.09          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 6        | 6.09          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 12       | 6.09          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H    | 12       | 6.09          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 12       | 6.09          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 14       | 6.09          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 2        | 6.09          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 19       | 6.09          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 19       | 6.09          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 19       | 6.09          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 11       | 6.09          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 11       | 6.09          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 11       | 6.09          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 1        | 6.09          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB2  | 12       | 6.09          |
| (1,3664) | 1:A:18:LEU:H    | 1:A:35:HIS:HB3  | 12       | 6.09          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 3        | 6.09          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 3        | 6.09          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H    | 5        | 6.09          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H    | 10       | 6.09          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H    | 13       | 6.09          |
| (1,3474) | 1:A:16:GLY:H    | 1:A:27:GLY:H    | 11       | 6.09          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 20       | 6.09          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 20       | 6.09          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 11       | 6.09          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 11       | 6.09          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 2        | 6.09          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 2        | 6.09          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H    | 8        | 6.09          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H    | 8        | 6.09          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2  | 11       | 6.09          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2  | 9        | 6.09          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3  | 9        | 6.09          |
| (1,3218) | 1:A:14:CYS:HB2  | 1:A:32:TYR:H    | 16       | 6.09          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE   | 15       | 6.09          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 13       | 6.09          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 14       | 6.09          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 3        | 6.09          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 3        | 6.09          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 12       | 6.09          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 11       | 6.09          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 11       | 6.09          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD2  | 1        | 6.09          |
| (1,2988) | 1:A:12:GLY:H   | 1:A:15:ARG:HD3  | 1        | 6.09          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 5        | 6.09          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 5        | 6.09          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 2        | 6.09          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 4        | 6.09          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 5        | 6.09          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 1        | 6.09          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 11       | 6.09          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 13       | 6.09          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 15       | 6.09          |
| (1,2293) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HA   | 16       | 6.09          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 1        | 6.09          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 5        | 6.09          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 8        | 6.09          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 8        | 6.09          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 8        | 6.09          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 6        | 6.09          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 6        | 6.09          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 1        | 6.09          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 1        | 6.09          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 13       | 6.09          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 13       | 6.09          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2  | 13       | 6.09          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3  | 13       | 6.09          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA   | 1        | 6.09          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 3        | 6.09          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 3        | 6.09          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 1        | 6.09          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 7        | 6.09          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 11       | 6.09          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 15       | 6.09          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 5        | 6.09          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 10       | 6.09          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 18       | 6.09          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 18       | 6.09          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 19       | 6.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3  | 19       | 6.09          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 3        | 6.09          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2 | 8        | 6.09          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3 | 8        | 6.09          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 1        | 6.09          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 8        | 6.09          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 19       | 6.09          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 19       | 6.09          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 9        | 6.09          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 20       | 6.09          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 20       | 6.09          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 2        | 6.09          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 4        | 6.09          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 3        | 6.08          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3 | 11       | 6.08          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2 | 15       | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 8        | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 8        | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 19       | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 19       | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 20       | 6.08          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 20       | 6.08          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 16       | 6.08          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 16       | 6.08          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 6        | 6.08          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 6        | 6.08          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA  | 6        | 6.08          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 18       | 6.08          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 19       | 6.08          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 20       | 6.08          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 12       | 6.08          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2 | 5        | 6.08          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3 | 5        | 6.08          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 15       | 6.08          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 18       | 6.08          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 19       | 6.08          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2 | 11       | 6.08          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3 | 11       | 6.08          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 15       | 6.08          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 15       | 6.08          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 15       | 6.08          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 15       | 6.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 15       | 6.08          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 15       | 6.08          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 12       | 6.08          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 12       | 6.08          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 1        | 6.08          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H   | 2        | 6.08          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H   | 10       | 6.08          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 7        | 6.08          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 9        | 6.08          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 10       | 6.08          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 12       | 6.08          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 17       | 6.08          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 4        | 6.08          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 5        | 6.08          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 10       | 6.08          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2 | 14       | 6.08          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 5        | 6.08          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 10       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 16       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 16       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 16       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 18       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 18       | 6.08          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 18       | 6.08          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 8        | 6.08          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 8        | 6.08          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 8        | 6.08          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 17       | 6.08          |
| (1,3655) | 1:A:18:LEU:H    | 1:A:29:GLY:HA3 | 16       | 6.08          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 12       | 6.08          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 6        | 6.08          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 6        | 6.08          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 20       | 6.08          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 20       | 6.08          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 17       | 6.08          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 17       | 6.08          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 8        | 6.08          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 15       | 6.08          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 16       | 6.08          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 18       | 6.08          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB2 | 4        | 6.08          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB3 | 4        | 6.08          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 7        | 6.08          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 18       | 6.08          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 19       | 6.08          |
| (1,3182) | 1:A:14:CYS:H   | 1:A:25:TYR:H    | 20       | 6.08          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 1        | 6.08          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 1        | 6.08          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 6        | 6.08          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 6        | 6.08          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2  | 14       | 6.08          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3  | 14       | 6.08          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 10       | 6.08          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 10       | 6.08          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 14       | 6.08          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1  | 4        | 6.08          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2  | 4        | 6.08          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1  | 4        | 6.08          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2  | 4        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 2        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 2        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 5        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 5        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 6        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 6        | 6.08          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 10       | 6.08          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 10       | 6.08          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 13       | 6.08          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 13       | 6.08          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 15       | 6.08          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 15       | 6.08          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 8        | 6.08          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 11       | 6.08          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 5        | 6.08          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG   | 10       | 6.08          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 2        | 6.08          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 14       | 6.08          |
| (1,1593) | 1:A:6:GLN:HB2  | 1:A:14:CYS:HB3  | 14       | 6.08          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 7        | 6.08          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 7        | 6.08          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 15       | 6.08          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 1        | 6.08          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 12       | 6.08          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 5        | 6.08          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 5        | 6.08          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 5        | 6.08          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H    | 19       | 6.07          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H    | 19       | 6.07          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 12       | 6.07          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 9        | 6.07          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 9        | 6.07          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 6        | 6.07          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 6        | 6.07          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 9        | 6.07          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 9        | 6.07          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 11       | 6.07          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 11       | 6.07          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1  | 16       | 6.07          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2  | 16       | 6.07          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3  | 16       | 6.07          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2  | 18       | 6.07          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2  | 19       | 6.07          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2  | 20       | 6.07          |
| (1,4740) | 1:A:28:SER:H   | 1:A:35:HIS:HE1  | 12       | 6.07          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2  | 17       | 6.07          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3  | 17       | 6.07          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 16       | 6.07          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 16       | 6.07          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 16       | 6.07          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA   | 8        | 6.07          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA   | 17       | 6.07          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2  | 11       | 6.07          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3  | 11       | 6.07          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 9        | 6.07          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 20       | 6.07          |
| (1,4433) | 1:A:23:TYR:HE1 | 1:A:32:TYR:H    | 20       | 6.07          |
| (1,4433) | 1:A:23:TYR:HE2 | 1:A:32:TYR:H    | 20       | 6.07          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 13       | 6.07          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 13       | 6.07          |
| (1,4236) | 1:A:22:GLN:HB3 | 1:A:32:TYR:H    | 6        | 6.07          |
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE1  | 15       | 6.07          |
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE2  | 15       | 6.07          |
| (1,4143) | 1:A:22:GLN:HA  | 1:A:27:GLY:H    | 11       | 6.07          |
| (1,4141) | 1:A:22:GLN:HA  | 1:A:26:CYS:H    | 5        | 6.07          |
| (1,3994) | 1:A:20:CYS:HB3 | 1:A:27:GLY:HA2  | 2        | 6.07          |
| (1,3994) | 1:A:20:CYS:HB3 | 1:A:27:GLY:HA2  | 5        | 6.07          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 15       | 6.07          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 2        | 6.07          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 6        | 6.07          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 11       | 6.07          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 6        | 6.07          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 6        | 6.07          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 9        | 6.07          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 9        | 6.07          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 9        | 6.07          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 17       | 6.07          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 17       | 6.07          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 17       | 6.07          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 17       | 6.07          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 17       | 6.07          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 17       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 13       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 13       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 13       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 16       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 16       | 6.07          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 16       | 6.07          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD1  | 14       | 6.07          |
| (1,3687) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HD2  | 14       | 6.07          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 3        | 6.07          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H    | 11       | 6.07          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 9        | 6.07          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 19       | 6.07          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H    | 14       | 6.07          |
| (1,3182) | 1:A:14:CYS:H    | 1:A:25:TYR:H    | 16       | 6.07          |
| (1,3150) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HG   | 2        | 6.07          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2  | 10       | 6.07          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3  | 10       | 6.07          |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H    | 11       | 6.07          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD2  | 19       | 6.07          |
| (1,2583) | 1:A:11:TRP:H    | 1:A:15:ARG:HD3  | 19       | 6.07          |
| (1,2435) | 1:A:9:PRO:HD2   | 1:A:20:CYS:H    | 14       | 6.07          |
| (1,2435) | 1:A:9:PRO:HD3   | 1:A:20:CYS:H    | 14       | 6.07          |
| (1,2426) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HH2  | 4        | 6.07          |
| (1,2426) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HH2  | 4        | 6.07          |
| (1,2299) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HZ2  | 9        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HB3  | 2        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HB3  | 3        | 6.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 4        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 5        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 6        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 9        | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 10       | 6.07          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 20       | 6.07          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 11       | 6.07          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 11       | 6.07          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 11       | 6.07          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 11       | 6.07          |
| (1,1723) | 1:A:6:GLN:HG2  | 1:A:26:CYS:HA  | 11       | 6.07          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 9        | 6.07          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 20       | 6.07          |
| (1,1598) | 1:A:6:GLN:HB2  | 1:A:21:SER:HG  | 2        | 6.07          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2  | 1        | 6.07          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3  | 1        | 6.07          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2  | 8        | 6.07          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3  | 8        | 6.07          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3 | 16       | 6.07          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1 | 7        | 6.07          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2 | 7        | 6.07          |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2 | 11       | 6.07          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H    | 10       | 6.06          |
| (1,931)  | 1:A:3:PRO:HG2  | 1:A:26:CYS:H   | 7        | 6.06          |
| (1,931)  | 1:A:3:PRO:HG3  | 1:A:26:CYS:H   | 7        | 6.06          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1 | 15       | 6.06          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2 | 15       | 6.06          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 16       | 6.06          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 3        | 6.06          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 3        | 6.06          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 3        | 6.06          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 4        | 6.06          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 6        | 6.06          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 14       | 6.06          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2 | 17       | 6.06          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2 | 17       | 6.06          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3 | 17       | 6.06          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3 | 17       | 6.06          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2 | 7        | 6.06          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3 | 7        | 6.06          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H   | 7        | 6.06          |
| (1,4367) | 1:A:23:TYR:HA  | 1:A:31:LYS:HG2 | 20       | 6.06          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3  | 20       | 6.06          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 6        | 6.06          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 6        | 6.06          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 10       | 6.06          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 3        | 6.06          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 4        | 6.06          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 6        | 6.06          |
| (1,4141) | 1:A:22:GLN:HA   | 1:A:26:CYS:H    | 17       | 6.06          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1  | 3        | 6.06          |
| (1,3958) | 1:A:20:CYS:HB2  | 1:A:23:TYR:HB2  | 3        | 6.06          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 12       | 6.06          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 14       | 6.06          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 11       | 6.06          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 11       | 6.06          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 18       | 6.06          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 18       | 6.06          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 18       | 6.06          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 8        | 6.06          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 7        | 6.06          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 7        | 6.06          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 7        | 6.06          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 11       | 6.06          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 11       | 6.06          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 11       | 6.06          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 11       | 6.06          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 11       | 6.06          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 11       | 6.06          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 1        | 6.06          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 1        | 6.06          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 1        | 6.06          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 10       | 6.06          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 10       | 6.06          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 10       | 6.06          |
| (1,3730) | 1:A:18:LEU:HG   | 1:A:21:SER:HB3  | 14       | 6.06          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2  | 1        | 6.06          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3  | 1        | 6.06          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2  | 4        | 6.06          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3  | 4        | 6.06          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 4        | 6.06          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 12       | 6.06          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 12       | 6.06          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 15       | 6.06          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H   | 15       | 6.06          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 2        | 6.06          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 2        | 6.06          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H   | 10       | 6.06          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 2        | 6.06          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 2        | 6.06          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 11       | 6.06          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 11       | 6.06          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 16       | 6.06          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2 | 11       | 6.06          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3 | 11       | 6.06          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H   | 3        | 6.06          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H   | 15       | 6.06          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1 | 3        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2 | 3        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 3        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 3        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1 | 6        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2 | 6        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 6        | 6.06          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 6        | 6.06          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 13       | 6.06          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 13       | 6.06          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2 | 3        | 6.06          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2 | 3        | 6.06          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 17       | 6.06          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 20       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 1        | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 7        | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 8        | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 11       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 12       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 13       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 14       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 15       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 16       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 18       | 6.06          |
| (1,2247) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HB3 | 19       | 6.06          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 15       | 6.06          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 15       | 6.06          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 15       | 6.06          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 15       | 6.06          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 11       | 6.06          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 11       | 6.06          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 11       | 6.06          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 11       | 6.06          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 1        | 6.06          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 1        | 6.06          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 6        | 6.06          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 9        | 6.06          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 9        | 6.06          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2   | 15       | 6.06          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3   | 15       | 6.06          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 13       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 12       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 12       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 13       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 13       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 16       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 16       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 20       | 6.06          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 20       | 6.06          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 15       | 6.06          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3  | 6        | 6.06          |
| (1,1407) | 1:A:5:GLY:H    | 1:A:11:TRP:HE1  | 9        | 6.06          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 17       | 6.06          |
| (1,999)  | 1:A:3:PRO:HD3  | 1:A:7:CYS:H     | 5        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 2        | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 10       | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 10       | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 10       | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 10       | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 10       | 6.05          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 10       | 6.05          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 1        | 6.05          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 8        | 6.05          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 1        | 6.05          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 5        | 6.05          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 5        | 6.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 13       | 6.05          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 13       | 6.05          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 14       | 6.05          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 14       | 6.05          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 19       | 6.05          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 19       | 6.05          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2 | 10       | 6.05          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3 | 10       | 6.05          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 8        | 6.05          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 8        | 6.05          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 2        | 6.05          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H   | 8        | 6.05          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 18       | 6.05          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 14       | 6.05          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 14       | 6.05          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 14       | 6.05          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 3        | 6.05          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 3        | 6.05          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 3        | 6.05          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 4        | 6.05          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 6        | 6.05          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 13       | 6.05          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 3        | 6.05          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 8        | 6.05          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 8        | 6.05          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 8        | 6.05          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 15       | 6.05          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 15       | 6.05          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 15       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 19       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 19       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 19       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 19       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 19       | 6.05          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 19       | 6.05          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 17       | 6.05          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 17       | 6.05          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 17       | 6.05          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 4        | 6.05          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 4        | 6.05          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 2        | 6.05          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 2        | 6.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 2        | 6.05          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H    | 15       | 6.05          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 16       | 6.05          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2  | 4        | 6.05          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3  | 4        | 6.05          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2  | 17       | 6.05          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3  | 17       | 6.05          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG   | 18       | 6.05          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA2  | 19       | 6.05          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA3  | 19       | 6.05          |
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H    | 10       | 6.05          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 10       | 6.05          |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H    | 9        | 6.05          |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 9        | 6.05          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2  | 16       | 6.05          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2  | 11       | 6.05          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 2        | 6.05          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 2        | 6.05          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 10       | 6.05          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 10       | 6.05          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 5        | 6.05          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 17       | 6.05          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 17       | 6.05          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 17       | 6.05          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 17       | 6.05          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H    | 1        | 6.05          |
| (1,2395) | 1:A:9:PRO:HG3  | 1:A:24:GLY:H    | 17       | 6.05          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 8        | 6.05          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 14       | 6.05          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 19       | 6.05          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 12       | 6.05          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 12       | 6.05          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 3        | 6.05          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 6        | 6.05          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 16       | 6.05          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 16       | 6.05          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 16       | 6.05          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 6        | 6.05          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 6        | 6.05          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 6        | 6.05          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 6        | 6.05          |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 11       | 6.05          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3 | 11       | 6.05          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 2        | 6.05          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 3        | 6.05          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 5        | 6.05          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 10       | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 2        | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 2        | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 5        | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 5        | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 10       | 6.05          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 10       | 6.05          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H   | 1        | 6.05          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H   | 12       | 6.05          |
| (1,1469) | 1:A:5:GLY:HA3  | 1:A:11:TRP:HD1 | 13       | 6.05          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H   | 15       | 6.05          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 4        | 6.05          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 13       | 6.05          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 20       | 6.05          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 13       | 6.05          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 1        | 6.05          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 13       | 6.04          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA   | 11       | 6.04          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2 | 14       | 6.04          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3 | 14       | 6.04          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 7        | 6.04          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 7        | 6.04          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 16       | 6.04          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 16       | 6.04          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 13       | 6.04          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 13       | 6.04          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 13       | 6.04          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA  | 5        | 6.04          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA  | 5        | 6.04          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 5        | 6.04          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 5        | 6.04          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 7        | 6.04          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA  | 9        | 6.04          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG2 | 20       | 6.04          |
| (1,4638) | 1:A:26:CYS:HA  | 1:A:31:LYS:HG3 | 20       | 6.04          |
| (1,4460) | 1:A:24:GLY:H   | 1:A:35:HIS:HB2 | 19       | 6.04          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG2 | 14       | 6.04          |
| (1,4391) | 1:A:23:TYR:HB3 | 1:A:31:LYS:HG3 | 14       | 6.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 3        | 6.04          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 18       | 6.04          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2  | 1        | 6.04          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3  | 1        | 6.04          |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3  | 3        | 6.04          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 18       | 6.04          |
| (1,4170) | 1:A:22:GLN:HG2  | 1:A:26:CYS:H    | 15       | 6.04          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 17       | 6.04          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 12       | 6.04          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 12       | 6.04          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2  | 11       | 6.04          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 8        | 6.04          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 20       | 6.04          |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2  | 1        | 6.04          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 17       | 6.04          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 17       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 1        | 6.04          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 18       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 18       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 18       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 18       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 18       | 6.04          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 18       | 6.04          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H    | 3        | 6.04          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 10       | 6.04          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 6        | 6.04          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 10       | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 2        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 2        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 3        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 3        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 5        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 5        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 6        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 6        | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 10       | 6.04          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 10       | 6.04          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3397) | 1:A:15:ARG:HD2 | 1:A:20:CYS:H    | 20       | 6.04          |
| (1,3397) | 1:A:15:ARG:HD3 | 1:A:20:CYS:H    | 20       | 6.04          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 18       | 6.04          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 18       | 6.04          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 19       | 6.04          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 19       | 6.04          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 4        | 6.04          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 5        | 6.04          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 5        | 6.04          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 6        | 6.04          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 6        | 6.04          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 15       | 6.04          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 15       | 6.04          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 6        | 6.04          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 6        | 6.04          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 7        | 6.04          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 7        | 6.04          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 7        | 6.04          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 7        | 6.04          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 7        | 6.04          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 12       | 6.04          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 16       | 6.04          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 18       | 6.04          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 4        | 6.04          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 18       | 6.04          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 18       | 6.04          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 18       | 6.04          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE21 | 19       | 6.04          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE21 | 19       | 6.04          |
| (1,2000) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HE22 | 19       | 6.04          |
| (1,2000) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HE22 | 19       | 6.04          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 4        | 6.04          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2  | 20       | 6.04          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 17       | 6.04          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 17       | 6.04          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 1        | 6.04          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 11       | 6.04          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 15       | 6.04          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 15       | 6.04          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 8        | 6.04          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 3        | 6.04          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 15       | 6.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1410) | 1:A:5:GLY:H     | 1:A:12:GLY:HA3  | 15       | 6.04          |
| (1,1238) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HE1  | 11       | 6.04          |
| (1,1238) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HE2  | 11       | 6.04          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1  | 16       | 6.04          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2  | 16       | 6.04          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD21 | 16       | 6.04          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD22 | 16       | 6.04          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD23 | 16       | 6.04          |
| (1,1192) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ3  | 5        | 6.04          |
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H    | 11       | 6.03          |
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H    | 14       | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD11 | 5        | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD12 | 5        | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD13 | 5        | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD21 | 5        | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD22 | 5        | 6.03          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD23 | 5        | 6.03          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2  | 6        | 6.03          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3  | 6        | 6.03          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2  | 13       | 6.03          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3  | 13       | 6.03          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA   | 5        | 6.03          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2  | 19       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2  | 19       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3  | 19       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3  | 19       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2  | 20       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2  | 20       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3  | 20       | 6.03          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3  | 20       | 6.03          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2  | 18       | 6.03          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3  | 18       | 6.03          |
| (1,4507) | 1:A:25:TYR:H    | 1:A:28:SER:H    | 14       | 6.03          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2  | 16       | 6.03          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3  | 16       | 6.03          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 18       | 6.03          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 18       | 6.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 18       | 6.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 18       | 6.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 18       | 6.03          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 1        | 6.03          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 1        | 6.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 12       | 6.03          |
| (1,3994) | 1:A:20:CYS:HB3  | 1:A:27:GLY:HA2 | 1        | 6.03          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 10       | 6.03          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 18       | 6.03          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3 | 9        | 6.03          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 14       | 6.03          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 4        | 6.03          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 6        | 6.03          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 17       | 6.03          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 5        | 6.03          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 5        | 6.03          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 5        | 6.03          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 15       | 6.03          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 15       | 6.03          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 15       | 6.03          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 1        | 6.03          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 1        | 6.03          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 1        | 6.03          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 11       | 6.03          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 11       | 6.03          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 11       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 15       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 15       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 15       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 15       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 15       | 6.03          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 15       | 6.03          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 1        | 6.03          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 6        | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 3        | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 3        | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 9        | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 9        | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 13       | 6.03          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 13       | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 9        | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 9        | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 10       | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 10       | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 12       | 6.03          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 12       | 6.03          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 7        | 6.03          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB2 | 7        | 6.03          |
| (1,3615) | 1:A:17:GLY:HA2 | 1:A:34:ALA:HB3 | 7        | 6.03          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2 | 5        | 6.03          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3 | 5        | 6.03          |
| (1,3425) | 1:A:15:ARG:HE  | 1:A:19:CYS:H   | 1        | 6.03          |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H   | 13       | 6.03          |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H   | 13       | 6.03          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 3        | 6.03          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 4        | 6.03          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1 | 16       | 6.03          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2 | 16       | 6.03          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2 | 14       | 6.03          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3 | 14       | 6.03          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 7        | 6.03          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2 | 12       | 6.03          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3 | 12       | 6.03          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 5        | 6.03          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 5        | 6.03          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2 | 14       | 6.03          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3 | 14       | 6.03          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 12       | 6.03          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 12       | 6.03          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2 | 9        | 6.03          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2 | 9        | 6.03          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2 | 20       | 6.03          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2 | 20       | 6.03          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 5        | 6.03          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 10       | 6.03          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 10       | 6.03          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 10       | 6.03          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 4        | 6.03          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 4        | 6.03          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 4        | 6.03          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 4        | 6.03          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 7        | 6.03          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 8        | 6.03          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 13       | 6.03          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 18       | 6.03          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 19       | 6.03          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD2  | 17       | 6.03          |
| (1,1797) | 1:A:6:GLN:HE21 | 1:A:9:PRO:HD3  | 17       | 6.03          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H   | 8        | 6.03          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 15       | 6.03          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2   | 11       | 6.03          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3   | 11       | 6.03          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 4        | 6.03          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 2        | 6.03          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 3        | 6.03          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 4        | 6.03          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 15       | 6.03          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 15       | 6.03          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 11       | 6.03          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 13       | 6.03          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 13       | 6.03          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 13       | 6.03          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 13       | 6.03          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 4        | 6.02          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 4        | 6.02          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 1        | 6.02          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 9        | 6.02          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 15       | 6.02          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 1        | 6.02          |
| (1,604)  | 1:A:2:GLY:H    | 1:A:9:PRO:HA    | 9        | 6.02          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 4        | 6.02          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 7        | 6.02          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 7        | 6.02          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 7        | 6.02          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2  | 18       | 6.02          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2  | 18       | 6.02          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3  | 18       | 6.02          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3  | 18       | 6.02          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2  | 13       | 6.02          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3  | 13       | 6.02          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2  | 16       | 6.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB2 | 16       | 6.02          |
| (1,4441) | 1:A:23:TYR:HE1  | 1:A:35:HIS:HB3 | 16       | 6.02          |
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 16       | 6.02          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 19       | 6.02          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 19       | 6.02          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 16       | 6.02          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 16       | 6.02          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 9        | 6.02          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 9        | 6.02          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 12       | 6.02          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 3        | 6.02          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 4        | 6.02          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 3        | 6.02          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 3        | 6.02          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 6        | 6.02          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 19       | 6.02          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1 | 6        | 6.02          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 2        | 6.02          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 1        | 6.02          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 7        | 6.02          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 7        | 6.02          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 7        | 6.02          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 18       | 6.02          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 18       | 6.02          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 18       | 6.02          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 7        | 6.02          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 8        | 6.02          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 8        | 6.02          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 15       | 6.02          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 15       | 6.02          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 15       | 6.02          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB1 | 16       | 6.02          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB2 | 16       | 6.02          |
| (1,3615) | 1:A:17:GLY:HA2  | 1:A:34:ALA:HB3 | 16       | 6.02          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 2        | 6.02          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 18       | 6.02          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 18       | 6.02          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 2        | 6.02          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 14       | 6.02          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 12       | 6.02          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 17       | 6.02          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 17       | 6.02          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 3        | 6.02          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 8        | 6.02          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 8        | 6.02          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 9        | 6.02          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 9        | 6.02          |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 3        | 6.02          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 1        | 6.02          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 1        | 6.02          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 11       | 6.02          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 11       | 6.02          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 9        | 6.02          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 9        | 6.02          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 10       | 6.02          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 17       | 6.02          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 17       | 6.02          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2  | 2        | 6.02          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2  | 6        | 6.02          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2  | 17       | 6.02          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2  | 9        | 6.02          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2  | 12       | 6.02          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2  | 16       | 6.02          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 17       | 6.02          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 18       | 6.02          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 9        | 6.02          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 18       | 6.02          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 20       | 6.02          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 7        | 6.02          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 18       | 6.02          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 11       | 6.02          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 11       | 6.02          |
| (1,1410) | 1:A:5:GLY:H    | 1:A:12:GLY:HA3  | 11       | 6.02          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2  | 14       | 6.02          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3  | 14       | 6.02          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 12       | 6.02          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 9        | 6.02          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 6        | 6.02          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 9        | 6.02          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 3        | 6.02          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 1        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 3        | 6.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 3        | 6.01          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 3        | 6.01          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 12       | 6.01          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 12       | 6.01          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 12       | 6.01          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 13       | 6.01          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB2  | 2        | 6.01          |
| (1,631)  | 1:A:2:GLY:H    | 1:A:20:CYS:HB3  | 2        | 6.01          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 12       | 6.01          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 12       | 6.01          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 12       | 6.01          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 14       | 6.01          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 14       | 6.01          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 19       | 6.01          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 9        | 6.01          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2  | 10       | 6.01          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H    | 3        | 6.01          |
| (1,4678) | 1:A:27:GLY:H   | 1:A:30:PRO:HA   | 10       | 6.01          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB2  | 5        | 6.01          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB2  | 5        | 6.01          |
| (1,4597) | 1:A:25:TYR:HE1 | 1:A:32:TYR:HB3  | 5        | 6.01          |
| (1,4597) | 1:A:25:TYR:HE2 | 1:A:32:TYR:HB3  | 5        | 6.01          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2  | 13       | 6.01          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3  | 13       | 6.01          |
| (1,4507) | 1:A:25:TYR:H   | 1:A:28:SER:H    | 12       | 6.01          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB1  | 4        | 6.01          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB2  | 4        | 6.01          |
| (1,4440) | 1:A:23:TYR:HE1 | 1:A:34:ALA:HB3  | 4        | 6.01          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB1  | 4        | 6.01          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB2  | 4        | 6.01          |
| (1,4440) | 1:A:23:TYR:HE2 | 1:A:34:ALA:HB3  | 4        | 6.01          |
| (1,4433) | 1:A:23:TYR:HE1 | 1:A:32:TYR:H    | 3        | 6.01          |
| (1,4433) | 1:A:23:TYR:HE2 | 1:A:32:TYR:H    | 3        | 6.01          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE1  | 2        | 6.01          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE2  | 2        | 6.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 2        | 6.01          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 6        | 6.01          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 3        | 6.01          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 2        | 6.01          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 4        | 6.01          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 5        | 6.01          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 16       | 6.01          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 2        | 6.01          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 2        | 6.01          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 2        | 6.01          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 6        | 6.01          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 6        | 6.01          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 6        | 6.01          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 20       | 6.01          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 20       | 6.01          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 20       | 6.01          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 20       | 6.01          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 20       | 6.01          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 20       | 6.01          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2 | 19       | 6.01          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 19       | 6.01          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 19       | 6.01          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 5        | 6.01          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 11       | 6.01          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 17       | 6.01          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 17       | 6.01          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 1        | 6.01          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 5        | 6.01          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 5        | 6.01          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 17       | 6.01          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 17       | 6.01          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 10       | 6.01          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 13       | 6.01          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 13       | 6.01          |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB2 | 8        | 6.01          |
| (1,2805) | 1:A:11:TRP:HE3  | 1:A:26:CYS:HB3 | 8        | 6.01          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 14       | 6.01          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 2        | 6.01          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 4        | 6.01          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 5        | 6.01          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 6        | 6.01          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 8        | 6.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 20       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 7        | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 7        | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 8        | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 8        | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 12       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 12       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 14       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 14       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 18       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 18       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 19       | 6.01          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 19       | 6.01          |
| (1,2045) | 1:A:8:GLY:H    | 1:A:21:SER:HG   | 17       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 9        | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 9        | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 9        | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 19       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 19       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 19       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 20       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 20       | 6.01          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 20       | 6.01          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 5        | 6.01          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 5        | 6.01          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 13       | 6.01          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 13       | 6.01          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 13       | 6.01          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 13       | 6.01          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 10       | 6.01          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 10       | 6.01          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 16       | 6.01          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 19       | 6.01          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H    | 19       | 6.01          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 12       | 6.01          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 14       | 6.01          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 16       | 6.01          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 4        | 6.01          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 11       | 6.01          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 11       | 6.01          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 6        | 6.0           |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 12       | 6.0           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H    | 15       | 6.0           |
| (1,900)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE1  | 20       | 6.0           |
| (1,900)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE1  | 20       | 6.0           |
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA    | 8        | 6.0           |
| (1,647)  | 1:A:2:GLY:H     | 1:A:26:CYS:HA   | 13       | 6.0           |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3  | 12       | 6.0           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE1  | 1        | 6.0           |
| (1,528)  | 1:A:1:SER:HA    | 1:A:25:TYR:HE2  | 1        | 6.0           |
| (1,4910) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:HB2  | 17       | 6.0           |
| (1,4910) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:HB2  | 17       | 6.0           |
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2  | 17       | 6.0           |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 11       | 6.0           |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3  | 13       | 6.0           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1  | 18       | 6.0           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2  | 18       | 6.0           |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3  | 18       | 6.0           |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 17       | 6.0           |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 17       | 6.0           |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 17       | 6.0           |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 17       | 6.0           |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H    | 1        | 6.0           |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H    | 1        | 6.0           |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 12       | 6.0           |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 8        | 6.0           |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 8        | 6.0           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1  | 9        | 6.0           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2  | 9        | 6.0           |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 8        | 6.0           |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 17       | 6.0           |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 13       | 6.0           |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 7        | 6.0           |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 7        | 6.0           |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 7        | 6.0           |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 9        | 6.0           |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 9        | 6.0           |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 9        | 6.0           |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3  | 9        | 6.0           |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2  | 11       | 6.0           |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3  | 11       | 6.0           |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 5        | 6.0           |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H    | 18       | 6.0           |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H    | 12       | 6.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 12       | 6.0           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 20       | 6.0           |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 20       | 6.0           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 4        | 6.0           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 4        | 6.0           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1  | 17       | 6.0           |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2  | 17       | 6.0           |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 6        | 6.0           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 7        | 6.0           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 7        | 6.0           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 20       | 6.0           |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 20       | 6.0           |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 4        | 6.0           |
| (1,3116) | 1:A:13:GLY:H   | 1:A:26:CYS:H    | 6        | 6.0           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 3        | 6.0           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 3        | 6.0           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 4        | 6.0           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 4        | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 8        | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 8        | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 9        | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 9        | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 13       | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 13       | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 15       | 6.0           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 15       | 6.0           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 20       | 6.0           |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 20       | 6.0           |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 8        | 6.0           |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 8        | 6.0           |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 3        | 6.0           |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 9        | 6.0           |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 12       | 6.0           |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 18       | 6.0           |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 19       | 6.0           |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 16       | 6.0           |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 16       | 6.0           |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2  | 4        | 6.0           |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA   | 17       | 6.0           |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 11       | 6.0           |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 7        | 6.0           |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 7        | 6.0           |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,2039) | 1:A:8:GLY:H   | 1:A:18:LEU:HD13 | 7        | 6.0           |
| (1,1971) | 1:A:7:CYS:H   | 1:A:32:TYR:HE1  | 3        | 6.0           |
| (1,1971) | 1:A:7:CYS:H   | 1:A:32:TYR:HE2  | 3        | 6.0           |
| (1,1928) | 1:A:7:CYS:H   | 1:A:11:TRP:HH2  | 6        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 2        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 2        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 4        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 4        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 5        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 5        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 6        | 6.0           |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 6        | 6.0           |
| (1,1717) | 1:A:6:GLN:HG2 | 1:A:23:TYR:HA   | 7        | 6.0           |
| (1,1597) | 1:A:6:GLN:HB2 | 1:A:21:SER:H    | 16       | 6.0           |
| (1,1520) | 1:A:6:GLN:H   | 1:A:20:CYS:HB2  | 14       | 6.0           |
| (1,1426) | 1:A:5:GLY:H   | 1:A:21:SER:HG   | 19       | 6.0           |
| (1,1238) | 1:A:4:ASN:HB3 | 1:A:32:TYR:HE1  | 6        | 6.0           |
| (1,1238) | 1:A:4:ASN:HB3 | 1:A:32:TYR:HE2  | 6        | 6.0           |
| (1,1205) | 1:A:4:ASN:HB3 | 1:A:18:LEU:HD21 | 9        | 6.0           |
| (1,1205) | 1:A:4:ASN:HB3 | 1:A:18:LEU:HD22 | 9        | 6.0           |
| (1,1205) | 1:A:4:ASN:HB3 | 1:A:18:LEU:HD23 | 9        | 6.0           |
| (1,1158) | 1:A:4:ASN:HB2 | 1:A:24:GLY:HA2  | 1        | 6.0           |
| (1,1061) | 1:A:4:ASN:H   | 1:A:11:TRP:HE1  | 2        | 6.0           |
| (1,1003) | 1:A:3:PRO:HD3 | 1:A:11:TRP:HE1  | 17       | 6.0           |
| (1,1002) | 1:A:3:PRO:HD3 | 1:A:11:TRP:HD1  | 3        | 6.0           |
| (1,900)  | 1:A:3:PRO:HG2 | 1:A:11:TRP:HE1  | 7        | 5.99          |
| (1,900)  | 1:A:3:PRO:HG3 | 1:A:11:TRP:HE1  | 7        | 5.99          |
| (1,845)  | 1:A:3:PRO:HB3 | 1:A:11:TRP:HH2  | 4        | 5.99          |
| (1,769)  | 1:A:3:PRO:HB2 | 1:A:6:GLN:HA    | 7        | 5.99          |
| (1,769)  | 1:A:3:PRO:HB2 | 1:A:6:GLN:HA    | 16       | 5.99          |
| (1,769)  | 1:A:3:PRO:HB2 | 1:A:6:GLN:HA    | 17       | 5.99          |
| (1,769)  | 1:A:3:PRO:HB2 | 1:A:6:GLN:HA    | 20       | 5.99          |
| (1,647)  | 1:A:2:GLY:H   | 1:A:26:CYS:HA   | 14       | 5.99          |
| (1,647)  | 1:A:2:GLY:H   | 1:A:26:CYS:HA   | 15       | 5.99          |
| (1,641)  | 1:A:2:GLY:H   | 1:A:24:GLY:HA2  | 8        | 5.99          |
| (1,631)  | 1:A:2:GLY:H   | 1:A:20:CYS:HB2  | 9        | 5.99          |
| (1,631)  | 1:A:2:GLY:H   | 1:A:20:CYS:HB3  | 9        | 5.99          |
| (1,616)  | 1:A:2:GLY:H   | 1:A:14:CYS:H    | 13       | 5.99          |
| (1,563)  | 1:A:1:SER:HB2 | 1:A:21:SER:HG   | 7        | 5.99          |
| (1,563)  | 1:A:1:SER:HB3 | 1:A:21:SER:HG   | 7        | 5.99          |
| (1,528)  | 1:A:1:SER:HA  | 1:A:25:TYR:HE1  | 5        | 5.99          |
| (1,528)  | 1:A:1:SER:HA  | 1:A:25:TYR:HE2  | 5        | 5.99          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H    | 15       | 5.99          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2  | 10       | 5.99          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2  | 10       | 5.99          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3  | 10       | 5.99          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3  | 10       | 5.99          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 1        | 5.99          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 1        | 5.99          |
| (1,4426) | 1:A:23:TYR:HE1  | 1:A:31:LYS:H    | 14       | 5.99          |
| (1,4426) | 1:A:23:TYR:HE2  | 1:A:31:LYS:H    | 14       | 5.99          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2  | 11       | 5.99          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3  | 11       | 5.99          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2  | 14       | 5.99          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 20       | 5.99          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 20       | 5.99          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2  | 8        | 5.99          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3  | 8        | 5.99          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 9        | 5.99          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 9        | 5.99          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 1        | 5.99          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 1        | 5.99          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H    | 17       | 5.99          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA   | 17       | 5.99          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 5        | 5.99          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 13       | 5.99          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2  | 3        | 5.99          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2  | 18       | 5.99          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3  | 18       | 5.99          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 6        | 5.99          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 10       | 5.99          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 10       | 5.99          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 16       | 5.99          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE21 | 15       | 5.99          |
| (1,3870) | 1:A:19:CYS:HB2  | 1:A:22:GLN:HE22 | 15       | 5.99          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 10       | 5.99          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 11       | 5.99          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 2        | 5.99          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 2        | 5.99          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 2        | 5.99          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 20       | 5.99          |
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2  | 20       | 5.99          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2  | 20       | 5.99          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 5        | 5.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE2  | 5        | 5.99          |
| (1,3718) | 1:A:18:LEU:HB3 | 1:A:29:GLY:HA3  | 1        | 5.99          |
| (1,3698) | 1:A:18:LEU:HB2 | 1:A:33:CYS:H    | 9        | 5.99          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA2  | 6        | 5.99          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA3  | 6        | 5.99          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA2  | 12       | 5.99          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA3  | 12       | 5.99          |
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 16       | 5.99          |
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 18       | 5.99          |
| (1,3571) | 1:A:17:GLY:H   | 1:A:28:SER:H    | 17       | 5.99          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 19       | 5.99          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 20       | 5.99          |
| (1,3510) | 1:A:16:GLY:HA2 | 1:A:27:GLY:H    | 15       | 5.99          |
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H    | 3        | 5.99          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 3        | 5.99          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 7        | 5.99          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 7        | 5.99          |
| (1,3212) | 1:A:14:CYS:HB2 | 1:A:29:GLY:H    | 8        | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 16       | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 16       | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 18       | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 18       | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 19       | 5.99          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 19       | 5.99          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 10       | 5.99          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 12       | 5.99          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 12       | 5.99          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 20       | 5.99          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 20       | 5.99          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 18       | 5.99          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 18       | 5.99          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 19       | 5.99          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 19       | 5.99          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 20       | 5.99          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 20       | 5.99          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 7        | 5.99          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 8        | 5.99          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 8        | 5.99          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 8        | 5.99          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA   | 2        | 5.99          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA   | 3        | 5.99          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA   | 4        | 5.99          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 5        | 5.99          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 6        | 5.99          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 10       | 5.99          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 1        | 5.99          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2 | 15       | 5.99          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 5        | 5.99          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 15       | 5.99          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 2        | 5.99          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 2        | 5.99          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 6        | 5.99          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 6        | 5.99          |
| (1,1597) | 1:A:6:GLN:HB2  | 1:A:21:SER:H   | 7        | 5.99          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 2        | 5.99          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2 | 19       | 5.99          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3 | 19       | 5.99          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 14       | 5.99          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1 | 4        | 5.99          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2 | 4        | 5.99          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 18       | 5.99          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 19       | 5.99          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 14       | 5.99          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 15       | 5.99          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1 | 8        | 5.98          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1 | 8        | 5.98          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1 | 16       | 5.98          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1 | 16       | 5.98          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 17       | 5.98          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2 | 15       | 5.98          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA   | 18       | 5.98          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA  | 11       | 5.98          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3 | 15       | 5.98          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 18       | 5.98          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 18       | 5.98          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1 | 19       | 5.98          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1 | 19       | 5.98          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 19       | 5.98          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 9        | 5.98          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 9        | 5.98          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 3        | 5.98          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 17       | 5.98          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 17       | 5.98          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3 | 17       | 5.98          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 16       | 5.98          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 16       | 5.98          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 16       | 5.98          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 16       | 5.98          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 11       | 5.98          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 11       | 5.98          |
| (1,4486) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HD2 | 3        | 5.98          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 11       | 5.98          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 11       | 5.98          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 11       | 5.98          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 11       | 5.98          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 12       | 5.98          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 12       | 5.98          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 4        | 5.98          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 4        | 5.98          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 13       | 5.98          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 9        | 5.98          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 15       | 5.98          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 15       | 5.98          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 3        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 3        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 3        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 8        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 8        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 8        | 5.98          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 13       | 5.98          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 13       | 5.98          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 13       | 5.98          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 12       | 5.98          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 12       | 5.98          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 12       | 5.98          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 16       | 5.98          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 16       | 5.98          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 5        | 5.98          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 5        | 5.98          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 7        | 5.98          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 7        | 5.98          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 5        | 5.98          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 19       | 5.98          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 8        | 5.98          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 8        | 5.98          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 1        | 5.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2 | 8        | 5.98          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3 | 8        | 5.98          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE1 | 2        | 5.98          |
| (1,3219) | 1:A:14:CYS:HB2 | 1:A:32:TYR:HE2 | 2        | 5.98          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2 | 1        | 5.98          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3 | 1        | 5.98          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 11       | 5.98          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG  | 4        | 5.98          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2 | 12       | 5.98          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 12       | 5.98          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2 | 1        | 5.98          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3 | 1        | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2 | 7        | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3 | 7        | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2 | 16       | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3 | 16       | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2 | 18       | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3 | 18       | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2 | 19       | 5.98          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3 | 19       | 5.98          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2 | 7        | 5.98          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3 | 7        | 5.98          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 13       | 5.98          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 13       | 5.98          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H   | 1        | 5.98          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H   | 11       | 5.98          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H   | 16       | 5.98          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2 | 11       | 5.98          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2 | 11       | 5.98          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 3        | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 1        | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 7        | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 8        | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 9        | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 11       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 12       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 13       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 14       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 15       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 16       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 18       | 5.98          |
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 19       | 5.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2361) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HA  | 20       | 5.98          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 12       | 5.98          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 12       | 5.98          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 12       | 5.98          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 12       | 5.98          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 6        | 5.98          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 6        | 5.98          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 14       | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 1        | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 2        | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 3        | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 4        | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 10       | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 11       | 5.98          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 14       | 5.98          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 9        | 5.98          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 9        | 5.98          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 5        | 5.98          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 5        | 5.98          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 10       | 5.98          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 10       | 5.98          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2 | 3        | 5.98          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3 | 3        | 5.98          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 13       | 5.98          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 15       | 5.98          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG2  | 9        | 5.98          |
| (1,1587) | 1:A:6:GLN:HB2  | 1:A:9:PRO:HG3  | 9        | 5.98          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2 | 8        | 5.98          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 6        | 5.98          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 7        | 5.98          |
| (1,1413) | 1:A:5:GLY:H    | 1:A:15:ARG:HB2 | 15       | 5.98          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 14       | 5.98          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 6        | 5.98          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 10       | 5.98          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 14       | 5.98          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 2        | 5.97          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 9        | 5.97          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1 | 18       | 5.97          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1 | 18       | 5.97          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1 | 19       | 5.97          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1 | 19       | 5.97          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA   | 14       | 5.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA   | 19       | 5.97          |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3 | 7        | 5.97          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2 | 12       | 5.97          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2 | 20       | 5.97          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 5        | 5.97          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 5        | 5.97          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB2 | 9        | 5.97          |
| (1,626)  | 1:A:2:GLY:H     | 1:A:18:LEU:HB3 | 9        | 5.97          |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 20       | 5.97          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 6        | 5.97          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 6        | 5.97          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 19       | 5.97          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 19       | 5.97          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 3        | 5.97          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 3        | 5.97          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 19       | 5.97          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 19       | 5.97          |
| (1,4818) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HE1 | 14       | 5.97          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG2 | 1        | 5.97          |
| (1,4749) | 1:A:28:SER:HB3  | 1:A:31:LYS:HG3 | 1        | 5.97          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 4        | 5.97          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 4        | 5.97          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 6        | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 5        | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 5        | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 12       | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 12       | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 19       | 5.97          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 19       | 5.97          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 17       | 5.97          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB2 | 2        | 5.97          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB2 | 2        | 5.97          |
| (1,4597) | 1:A:25:TYR:HE1  | 1:A:32:TYR:HB3 | 2        | 5.97          |
| (1,4597) | 1:A:25:TYR:HE2  | 1:A:32:TYR:HB3 | 2        | 5.97          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 11       | 5.97          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 11       | 5.97          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 20       | 5.97          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA  | 17       | 5.97          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 7        | 5.97          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 12       | 5.97          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 15       | 5.97          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 2        | 5.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 15       | 5.97          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 19       | 5.97          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 19       | 5.97          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 18       | 5.97          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 18       | 5.97          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 2        | 5.97          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 4        | 5.97          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 7        | 5.97          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 6        | 5.97          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 6        | 5.97          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 6        | 5.97          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 2        | 5.97          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 2        | 5.97          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 2        | 5.97          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 4        | 5.97          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 15       | 5.97          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 17       | 5.97          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 15       | 5.97          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 5.97          |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 5.97          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 8        | 5.97          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 13       | 5.97          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 11       | 5.97          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 18       | 5.97          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 18       | 5.97          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 1        | 5.97          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 1        | 5.97          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 18       | 5.97          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3 | 18       | 5.97          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 19       | 5.97          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3 | 19       | 5.97          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 1        | 5.97          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 1        | 5.97          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 4        | 5.97          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2 | 18       | 5.97          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3 | 18       | 5.97          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2 | 19       | 5.97          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3 | 19       | 5.97          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H   | 15       | 5.97          |
| (1,2426) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HH2 | 1        | 5.97          |
| (1,2426) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HH2 | 1        | 5.97          |
| (1,2426) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HH2 | 15       | 5.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2426) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HH2 | 15       | 5.97          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3 | 10       | 5.97          |
| (1,1484) | 1:A:5:GLY:HA3   | 1:A:20:CYS:H   | 6        | 5.97          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG2 | 9        | 5.97          |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG3 | 9        | 5.97          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD2 | 15       | 5.97          |
| (1,1414) | 1:A:5:GLY:H     | 1:A:15:ARG:HD3 | 15       | 5.97          |
| (1,1410) | 1:A:5:GLY:H     | 1:A:12:GLY:HA3 | 13       | 5.97          |
| (1,1238) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HE1 | 8        | 5.97          |
| (1,1238) | 1:A:4:ASN:HB3   | 1:A:32:TYR:HE2 | 8        | 5.97          |
| (1,1192) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ3 | 10       | 5.97          |
| (1,1154) | 1:A:4:ASN:HB2   | 1:A:23:TYR:HB2 | 4        | 5.97          |
| (1,978)  | 1:A:3:PRO:HD2   | 1:A:26:CYS:H   | 10       | 5.96          |
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA   | 4        | 5.96          |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3 | 1        | 5.96          |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3 | 20       | 5.96          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB2 | 10       | 5.96          |
| (1,631)  | 1:A:2:GLY:H     | 1:A:20:CYS:HB3 | 10       | 5.96          |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 18       | 5.96          |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 19       | 5.96          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 10       | 5.96          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 16       | 5.96          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 16       | 5.96          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 2        | 5.96          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 2        | 5.96          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 10       | 5.96          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 13       | 5.96          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 13       | 5.96          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 1        | 5.96          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD2 | 8        | 5.96          |
| (1,4640) | 1:A:26:CYS:HA   | 1:A:31:LYS:HD3 | 8        | 5.96          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 13       | 5.96          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 13       | 5.96          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 6        | 5.96          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 6        | 5.96          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG2 | 14       | 5.96          |
| (1,4367) | 1:A:23:TYR:HA   | 1:A:31:LYS:HG3 | 14       | 5.96          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 15       | 5.96          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 3        | 5.96          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 4        | 5.96          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 7        | 5.96          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 14       | 5.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4089) | 1:A:21:SER:HG  | 1:A:31:LYS:HD3  | 14       | 5.96          |
| (1,4034) | 1:A:21:SER:H   | 1:A:31:LYS:HB2  | 1        | 5.96          |
| (1,3931) | 1:A:20:CYS:H   | 1:A:29:GLY:H    | 3        | 5.96          |
| (1,3931) | 1:A:20:CYS:H   | 1:A:29:GLY:H    | 6        | 5.96          |
| (1,3930) | 1:A:20:CYS:H   | 1:A:28:SER:HB3  | 13       | 5.96          |
| (1,3856) | 1:A:19:CYS:HA  | 1:A:24:GLY:H    | 5        | 5.96          |
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE1  | 10       | 5.96          |
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE2  | 10       | 5.96          |
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE1  | 20       | 5.96          |
| (1,3754) | 1:A:18:LEU:HG  | 1:A:32:TYR:HE2  | 20       | 5.96          |
| (1,3698) | 1:A:18:LEU:HB2 | 1:A:33:CYS:H    | 13       | 5.96          |
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 20       | 5.96          |
| (1,3608) | 1:A:17:GLY:HA2 | 1:A:27:GLY:HA3  | 11       | 5.96          |
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H    | 10       | 5.96          |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H    | 10       | 5.96          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB2  | 12       | 5.96          |
| (1,3279) | 1:A:15:ARG:H   | 1:A:33:CYS:HB3  | 12       | 5.96          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 2        | 5.96          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 10       | 5.96          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB2  | 17       | 5.96          |
| (1,3183) | 1:A:14:CYS:H   | 1:A:25:TYR:HB3  | 17       | 5.96          |
| (1,3150) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HG   | 3        | 5.96          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 12       | 5.96          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 12       | 5.96          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2  | 15       | 5.96          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3  | 15       | 5.96          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB2  | 16       | 5.96          |
| (1,2805) | 1:A:11:TRP:HE3 | 1:A:26:CYS:HB3  | 16       | 5.96          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 2        | 5.96          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 10       | 5.96          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 16       | 5.96          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 16       | 5.96          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 16       | 5.96          |
| (1,2299) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HZ2  | 13       | 5.96          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 10       | 5.96          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 10       | 5.96          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 10       | 5.96          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 10       | 5.96          |
| (1,1987) | 1:A:7:CYS:HB2  | 1:A:16:GLY:H    | 14       | 5.96          |
| (1,1987) | 1:A:7:CYS:HB3  | 1:A:16:GLY:H    | 14       | 5.96          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 7        | 5.96          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 16       | 5.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 18       | 5.96          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 19       | 5.96          |
| (1,1520) | 1:A:6:GLN:H    | 1:A:20:CYS:HB2  | 20       | 5.96          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3  | 5        | 5.96          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 10       | 5.96          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 14       | 5.96          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 1        | 5.96          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 1        | 5.96          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 19       | 5.96          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 19       | 5.96          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 20       | 5.96          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 20       | 5.96          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 20       | 5.96          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 15       | 5.96          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 5        | 5.96          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 2        | 5.96          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 5        | 5.95          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 7        | 5.95          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 19       | 5.95          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 19       | 5.95          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 12       | 5.95          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 12       | 5.95          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 13       | 5.95          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 13       | 5.95          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3  | 10       | 5.95          |
| (1,4836) | 1:A:30:PRO:HD2 | 1:A:35:HIS:HD2  | 12       | 5.95          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 3        | 5.95          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 2        | 5.95          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 2        | 5.95          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 5        | 5.95          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 5        | 5.95          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2  | 16       | 5.95          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3  | 16       | 5.95          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 11       | 5.95          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1  | 8        | 5.95          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2  | 8        | 5.95          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB3  | 8        | 5.95          |
| (1,4417) | 1:A:23:TYR:HE1 | 1:A:27:GLY:H    | 14       | 5.95          |
| (1,4417) | 1:A:23:TYR:HE2 | 1:A:27:GLY:H    | 14       | 5.95          |
| (1,4408) | 1:A:23:TYR:HD1 | 1:A:32:TYR:H    | 6        | 5.95          |
| (1,4408) | 1:A:23:TYR:HD2 | 1:A:32:TYR:H    | 6        | 5.95          |
| (1,4404) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HA   | 13       | 5.95          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 13       | 5.95          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2  | 5        | 5.95          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2  | 6        | 5.95          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 9        | 5.95          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 15       | 5.95          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2  | 1        | 5.95          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3  | 1        | 5.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ1  | 6        | 5.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ2  | 6        | 5.95          |
| (1,3905) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HZ3  | 6        | 5.95          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 2        | 5.95          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 10       | 5.95          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 12       | 5.95          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 8        | 5.95          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 8        | 5.95          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 8        | 5.95          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 8        | 5.95          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 8        | 5.95          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 8        | 5.95          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1  | 18       | 5.95          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2  | 18       | 5.95          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3  | 11       | 5.95          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3  | 13       | 5.95          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3  | 15       | 5.95          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H    | 7        | 5.95          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG   | 17       | 5.95          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2  | 9        | 5.95          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3  | 9        | 5.95          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2  | 11       | 5.95          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3  | 11       | 5.95          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H    | 5        | 5.95          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H    | 6        | 5.95          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD11 | 15       | 5.95          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD12 | 15       | 5.95          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD13 | 15       | 5.95          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD11 | 5        | 5.95          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD12 | 5        | 5.95          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD13 | 5        | 5.95          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1  | 9        | 5.95          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2  | 9        | 5.95          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1  | 9        | 5.95          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2  | 9        | 5.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 18       | 5.95          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 18       | 5.95          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 18       | 5.95          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 18       | 5.95          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 4        | 5.95          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 4        | 5.95          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 13       | 5.95          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 13       | 5.95          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 19       | 5.95          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 19       | 5.95          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 20       | 5.95          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 20       | 5.95          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 1        | 5.95          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 11       | 5.95          |
| (1,1526) | 1:A:6:GLN:H    | 1:A:23:TYR:HB3  | 6        | 5.95          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 2        | 5.95          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 14       | 5.95          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 14       | 5.95          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 8        | 5.95          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 20       | 5.95          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 20       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 18       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 18       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 18       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 19       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 19       | 5.95          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 19       | 5.95          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 2        | 5.95          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 3        | 5.95          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 11       | 5.95          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 13       | 5.95          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 17       | 5.94          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 17       | 5.94          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 17       | 5.94          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 17       | 5.94          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 17       | 5.94          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 17       | 5.94          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 2        | 5.94          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 3        | 5.94          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 4        | 5.94          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 9        | 5.94          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 12       | 5.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4907) | 1:A:31:LYS:HE3  | 1:A:35:HIS:HE1 | 12       | 5.94          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 3        | 5.94          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 3        | 5.94          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 17       | 5.94          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 17       | 5.94          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 14       | 5.94          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 14       | 5.94          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 14       | 5.94          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 8        | 5.94          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 8        | 5.94          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 12       | 5.94          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 12       | 5.94          |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1 | 5        | 5.94          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA  | 20       | 5.94          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 16       | 5.94          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 17       | 5.94          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 1        | 5.94          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 17       | 5.94          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 5        | 5.94          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 7        | 5.94          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 13       | 5.94          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 5        | 5.94          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 13       | 5.94          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 14       | 5.94          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 14       | 5.94          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 20       | 5.94          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 20       | 5.94          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 15       | 5.94          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 1        | 5.94          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 1        | 5.94          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 1        | 5.94          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 4        | 5.94          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 4        | 5.94          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 4        | 5.94          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 9        | 5.94          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 9        | 5.94          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 9        | 5.94          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 19       | 5.94          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 19       | 5.94          |
| (1,3729) | 1:A:18:LEU:HG   | 1:A:21:SER:H   | 14       | 5.94          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 8        | 5.94          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 17       | 5.94          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA3  | 17       | 5.94          |
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 7        | 5.94          |
| (1,3608) | 1:A:17:GLY:HA2 | 1:A:27:GLY:HA3  | 9        | 5.94          |
| (1,3537) | 1:A:16:GLY:HA3 | 1:A:27:GLY:H    | 7        | 5.94          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H    | 4        | 5.94          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 11       | 5.94          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 11       | 5.94          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 14       | 5.94          |
| (1,3014) | 1:A:12:GLY:H   | 1:A:26:CYS:H    | 17       | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 1        | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 1        | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 7        | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 7        | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 15       | 5.94          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 15       | 5.94          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2  | 13       | 5.94          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3  | 13       | 5.94          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 3        | 5.94          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H    | 14       | 5.94          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 18       | 5.94          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 18       | 5.94          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 18       | 5.94          |
| (1,2426) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HH2  | 13       | 5.94          |
| (1,2426) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HH2  | 13       | 5.94          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 6        | 5.94          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 6        | 5.94          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 6        | 5.94          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 5        | 5.94          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 5        | 5.94          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 5        | 5.94          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 5        | 5.94          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 19       | 5.94          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 19       | 5.94          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 19       | 5.94          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 19       | 5.94          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 8        | 5.94          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 8        | 5.94          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 3        | 5.94          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 3        | 5.94          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 12       | 5.94          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 12       | 5.94          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2  | 17       | 5.94          |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,1759) | 1:A:6:GLN:HG3 | 1:A:21:SER:HB3  | 17       | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 7        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 7        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 8        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 8        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 9        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 9        | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 12       | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 12       | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA2  | 18       | 5.94          |
| (1,1746) | 1:A:6:GLN:HG3 | 1:A:12:GLY:HA3  | 18       | 5.94          |
| (1,1520) | 1:A:6:GLN:H   | 1:A:20:CYS:HB2  | 9        | 5.94          |
| (1,1494) | 1:A:5:GLY:HA3 | 1:A:32:TYR:HB3  | 20       | 5.94          |
| (1,1484) | 1:A:5:GLY:HA3 | 1:A:20:CYS:H    | 5        | 5.94          |
| (1,1467) | 1:A:5:GLY:HA3 | 1:A:8:GLY:H     | 17       | 5.94          |
| (1,1426) | 1:A:5:GLY:H   | 1:A:21:SER:HG   | 3        | 5.94          |
| (1,1224) | 1:A:4:ASN:HB3 | 1:A:26:CYS:HA   | 4        | 5.94          |
| (1,1217) | 1:A:4:ASN:HB3 | 1:A:23:TYR:HB2  | 9        | 5.94          |
| (1,1194) | 1:A:4:ASN:HB3 | 1:A:11:TRP:HH2  | 7        | 5.94          |
| (1,1060) | 1:A:4:ASN:H   | 1:A:11:TRP:HD1  | 3        | 5.94          |
| (1,1060) | 1:A:4:ASN:H   | 1:A:11:TRP:HD1  | 4        | 5.94          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD11 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD12 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD13 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD11 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD12 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD13 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD21 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD22 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD23 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD21 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD22 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD23 | 6        | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD11 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD12 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD13 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD11 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD12 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3 | 1:A:18:LEU:HD13 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD21 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD22 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG2 | 1:A:18:LEU:HD23 | 14       | 5.93          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD21 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD22 | 14       | 5.93          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD23 | 14       | 5.93          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE1  | 6        | 5.93          |
| (1,866)  | 1:A:3:PRO:HB3   | 1:A:25:TYR:HE2  | 6        | 5.93          |
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA    | 3        | 5.93          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2  | 19       | 5.93          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2  | 4        | 5.93          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2  | 4        | 5.93          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 7        | 5.93          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 7        | 5.93          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 1        | 5.93          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 1        | 5.93          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA   | 5        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 3        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 3        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 4        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 4        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 6        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 6        | 5.93          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 13       | 5.93          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 13       | 5.93          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 19       | 5.93          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 12       | 5.93          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 12       | 5.93          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 9        | 5.93          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 9        | 5.93          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 3        | 5.93          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 10       | 5.93          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1  | 8        | 5.93          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2  | 8        | 5.93          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3  | 8        | 5.93          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 10       | 5.93          |
| (1,3904) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HG3  | 16       | 5.93          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 1        | 5.93          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 3        | 5.93          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 6        | 5.93          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 11       | 5.93          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 13       | 5.93          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 9        | 5.93          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 9        | 5.93          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 9        | 5.93          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 6        | 5.93          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 6        | 5.93          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 6        | 5.93          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 13       | 5.93          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 13       | 5.93          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 13       | 5.93          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 17       | 5.93          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 17       | 5.93          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 17       | 5.93          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 3        | 5.93          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 17       | 5.93          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 20       | 5.93          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 20       | 5.93          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 15       | 5.93          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 15       | 5.93          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 14       | 5.93          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 14       | 5.93          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H    | 3        | 5.93          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE   | 14       | 5.93          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2  | 15       | 5.93          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3  | 15       | 5.93          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB2  | 14       | 5.93          |
| (1,3183) | 1:A:14:CYS:H    | 1:A:25:TYR:HB3  | 14       | 5.93          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2  | 8        | 5.93          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB3  | 8        | 5.93          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2  | 16       | 5.93          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA3  | 16       | 5.93          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H    | 4        | 5.93          |
| (1,2659) | 1:A:11:TRP:HB2  | 1:A:25:TYR:H    | 13       | 5.93          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA2  | 1        | 5.93          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA3  | 1        | 5.93          |
| (1,1746) | 1:A:6:GLN:HG3   | 1:A:12:GLY:HA2  | 16       | 5.93          |
| (1,1746) | 1:A:6:GLN:HG3   | 1:A:12:GLY:HA3  | 16       | 5.93          |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB2  | 13       | 5.93          |
| (1,1631) | 1:A:6:GLN:HB3   | 1:A:14:CYS:HB3  | 13       | 5.93          |
| (1,1630) | 1:A:6:GLN:HB3   | 1:A:13:GLY:H    | 9        | 5.93          |
| (1,1604) | 1:A:6:GLN:HB2   | 1:A:24:GLY:H    | 12       | 5.93          |
| (1,1494) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HB3  | 18       | 5.93          |
| (1,1484) | 1:A:5:GLY:HA3   | 1:A:20:CYS:H    | 13       | 5.93          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H    | 12       | 5.93          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA   | 3        | 5.93          |
| (1,1205) | 1:A:4:ASN:HB3   | 1:A:18:LEU:HD21 | 11       | 5.93          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 11       | 5.93          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 11       | 5.93          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 20       | 5.93          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 9        | 5.93          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 9        | 5.93          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 8        | 5.92          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1  | 3        | 5.92          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2  | 3        | 5.92          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 2        | 5.92          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 6        | 5.92          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 8        | 5.92          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 20       | 5.92          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 19       | 5.92          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 17       | 5.92          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 15       | 5.92          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 10       | 5.92          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 10       | 5.92          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 20       | 5.92          |
| (1,4746) | 1:A:28:SER:HB2 | 1:A:35:HIS:H    | 8        | 5.92          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1  | 16       | 5.92          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2  | 16       | 5.92          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3  | 16       | 5.92          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 10       | 5.92          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 13       | 5.92          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 19       | 5.92          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 20       | 5.92          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG2  | 16       | 5.92          |
| (1,4516) | 1:A:25:TYR:H   | 1:A:31:LYS:HG3  | 16       | 5.92          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2  | 9        | 5.92          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3  | 9        | 5.92          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA   | 15       | 5.92          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA   | 15       | 5.92          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2  | 6        | 5.92          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2  | 6        | 5.92          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3  | 6        | 5.92          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3  | 6        | 5.92          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2  | 19       | 5.92          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2  | 19       | 5.92          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3  | 19       | 5.92          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3  | 19       | 5.92          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 14       | 5.92          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 14       | 5.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 10       | 5.92          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 14       | 5.92          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H    | 16       | 5.92          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA   | 10       | 5.92          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 5        | 5.92          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 4        | 5.92          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 4        | 5.92          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2  | 14       | 5.92          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 11       | 5.92          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 11       | 5.92          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 15       | 5.92          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 15       | 5.92          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 4        | 5.92          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 14       | 5.92          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 7        | 5.92          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 7        | 5.92          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 7        | 5.92          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 16       | 5.92          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 16       | 5.92          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 16       | 5.92          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 5        | 5.92          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 5        | 5.92          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 5        | 5.92          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H    | 10       | 5.92          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 4        | 5.92          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 17       | 5.92          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 8        | 5.92          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 8        | 5.92          |
| (1,3340) | 1:A:15:ARG:HB3  | 1:A:26:CYS:H    | 15       | 5.92          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 7        | 5.92          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 7        | 5.92          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1  | 15       | 5.92          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2  | 15       | 5.92          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2  | 5        | 5.92          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2  | 14       | 5.92          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA   | 1        | 5.92          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE1  | 6        | 5.92          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE2  | 6        | 5.92          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD11 | 19       | 5.92          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD12 | 19       | 5.92          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD13 | 19       | 5.92          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD11 | 10       | 5.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 10       | 5.92          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 10       | 5.92          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 15       | 5.92          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 15       | 5.92          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 15       | 5.92          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 3        | 5.92          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 3        | 5.92          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 3        | 5.92          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 3        | 5.92          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 14       | 5.92          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 14       | 5.92          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 14       | 5.92          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 14       | 5.92          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 8        | 5.92          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 16       | 5.92          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 2        | 5.92          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 5        | 5.92          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 10       | 5.92          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 4        | 5.92          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 7        | 5.92          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 7        | 5.92          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 7        | 5.92          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 13       | 5.92          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 4        | 5.92          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 10       | 5.91          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 12       | 5.91          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 13       | 5.91          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 19       | 5.91          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 19       | 5.91          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 18       | 5.91          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 11       | 5.91          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 11       | 5.91          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2  | 3        | 5.91          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1  | 8        | 5.91          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2  | 8        | 5.91          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3  | 8        | 5.91          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H    | 7        | 5.91          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA   | 17       | 5.91          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 15       | 5.91          |
| (1,4645) | 1:A:26:CYS:HA  | 1:A:33:CYS:HB2  | 18       | 5.91          |
| (1,4580) | 1:A:25:TYR:HE1 | 1:A:27:GLY:H    | 15       | 5.91          |
| (1,4580) | 1:A:25:TYR:HE2 | 1:A:27:GLY:H    | 15       | 5.91          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 5        | 5.91          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 5        | 5.91          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 5        | 5.91          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 5        | 5.91          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 9        | 5.91          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 9        | 5.91          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 12       | 5.91          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 12       | 5.91          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 12       | 5.91          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 6        | 5.91          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 10       | 5.91          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 13       | 5.91          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 8        | 5.91          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 19       | 5.91          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 1        | 5.91          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 10       | 5.91          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 17       | 5.91          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 1        | 5.91          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 16       | 5.91          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 16       | 5.91          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3 | 1        | 5.91          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 18       | 5.91          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 14       | 5.91          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 1        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 1        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 1        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 7        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 7        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 7        | 5.91          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 11       | 5.91          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 11       | 5.91          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 11       | 5.91          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 15       | 5.91          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 15       | 5.91          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 8        | 5.91          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 11       | 5.91          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 13       | 5.91          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 11       | 5.91          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 11       | 5.91          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 9        | 5.91          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 10       | 5.91          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 3        | 5.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 3        | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 2        | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 2        | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 5        | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 5        | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 10       | 5.91          |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 10       | 5.91          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 20       | 5.91          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 20       | 5.91          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 20       | 5.91          |
| (1,2330) | 1:A:9:PRO:HG2  | 1:A:24:GLY:H    | 17       | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 3        | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 3        | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 3        | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 4        | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 4        | 5.91          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 4        | 5.91          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 20       | 5.91          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 20       | 5.91          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 20       | 5.91          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 20       | 5.91          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 11       | 5.91          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 11       | 5.91          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 3        | 5.91          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 3        | 5.91          |
| (1,1792) | 1:A:6:GLN:HE21 | 1:A:8:GLY:H     | 17       | 5.91          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 6        | 5.91          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 12       | 5.91          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 13       | 5.91          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 15       | 5.91          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 1        | 5.91          |
| (1,1494) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HB3  | 19       | 5.91          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 11       | 5.91          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 6        | 5.91          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 4        | 5.91          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 13       | 5.91          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 13       | 5.91          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 2        | 5.91          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 14       | 5.91          |
| (1,769)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HA    | 6        | 5.9           |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 12       | 5.9           |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 16       | 5.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H   | 12       | 5.9           |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H   | 12       | 5.9           |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 2        | 5.9           |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 2        | 5.9           |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 2        | 5.9           |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 2        | 5.9           |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 4        | 5.9           |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 4        | 5.9           |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 2        | 5.9           |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 17       | 5.9           |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2 | 9        | 5.9           |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2 | 2        | 5.9           |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 10       | 5.9           |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 15       | 5.9           |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 15       | 5.9           |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 3        | 5.9           |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 6        | 5.9           |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 9        | 5.9           |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 16       | 5.9           |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 2        | 5.9           |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 2        | 5.9           |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 5        | 5.9           |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 5        | 5.9           |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 13       | 5.9           |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 13       | 5.9           |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 13       | 5.9           |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 13       | 5.9           |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 7        | 5.9           |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 7        | 5.9           |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 7        | 5.9           |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 7        | 5.9           |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 19       | 5.9           |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 19       | 5.9           |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 10       | 5.9           |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 10       | 5.9           |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 10       | 5.9           |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 12       | 5.9           |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 14       | 5.9           |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 16       | 5.9           |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H   | 18       | 5.9           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 18       | 5.9           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 18       | 5.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 19       | 5.9           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 19       | 5.9           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 20       | 5.9           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 20       | 5.9           |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 7        | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 2        | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 2        | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 5        | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 5        | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 10       | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 10       | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 16       | 5.9           |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 16       | 5.9           |
| (1,3913) | 1:A:20:CYS:H    | 1:A:22:GLN:HG2 | 20       | 5.9           |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 15       | 5.9           |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 16       | 5.9           |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 18       | 5.9           |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 19       | 5.9           |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 8        | 5.9           |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 10       | 5.9           |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 10       | 5.9           |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 10       | 5.9           |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 6        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 6        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 6        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 8        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 8        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 8        | 5.9           |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 15       | 5.9           |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 15       | 5.9           |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 15       | 5.9           |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 5        | 5.9           |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 5        | 5.9           |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 5        | 5.9           |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 8        | 5.9           |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 12       | 5.9           |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 12       | 5.9           |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 16       | 5.9           |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 13       | 5.9           |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 13       | 5.9           |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 2        | 5.9           |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 6        | 5.9           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 10       | 5.9           |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2  | 14       | 5.9           |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 9        | 5.9           |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 9        | 5.9           |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 15       | 5.9           |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 15       | 5.9           |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2  | 9        | 5.9           |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3  | 9        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 3        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 3        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 4        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 4        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA2  | 6        | 5.9           |
| (1,2835) | 1:A:11:TRP:HE1 | 1:A:13:GLY:HA3  | 6        | 5.9           |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 9        | 5.9           |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 9        | 5.9           |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 9        | 5.9           |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1  | 12       | 5.9           |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2  | 12       | 5.9           |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1  | 12       | 5.9           |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2  | 12       | 5.9           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1  | 3        | 5.9           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2  | 3        | 5.9           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1  | 4        | 5.9           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2  | 4        | 5.9           |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 2        | 5.9           |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 2        | 5.9           |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 2        | 5.9           |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 1        | 5.9           |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 1        | 5.9           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 5        | 5.9           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 5        | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 16       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 16       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 18       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 18       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 19       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 19       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB2  | 20       | 5.9           |
| (1,1969) | 1:A:7:CYS:H    | 1:A:32:TYR:HB3  | 20       | 5.9           |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 1        | 5.9           |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 1        | 5.9           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 20       | 5.9           |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 20       | 5.9           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 4        | 5.9           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 4        | 5.9           |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 11       | 5.9           |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 11       | 5.9           |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 1        | 5.9           |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 1        | 5.9           |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 11       | 5.9           |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 11       | 5.9           |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA   | 4        | 5.9           |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 15       | 5.9           |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 15       | 5.9           |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 20       | 5.9           |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 4        | 5.9           |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 4        | 5.9           |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 8        | 5.9           |
| (1,1193) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ2  | 17       | 5.9           |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 18       | 5.9           |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 19       | 5.9           |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 11       | 5.9           |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 11       | 5.9           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 2        | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 10       | 5.89          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD23 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD21 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD22 | 10       | 5.89          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD23 | 10       | 5.89          |
| (1,781)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HH2  | 11       | 5.89          |
| (1,769)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HA    | 5        | 5.89          |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3  | 16       | 5.89          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2  | 7        | 5.89          |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H    | 8        | 5.89          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG   | 17       | 5.89          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG   | 17       | 5.89          |
| (1,516)  | 1:A:1:SER:HA    | 1:A:15:ARG:HE   | 19       | 5.89          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3  | 8        | 5.89          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3  | 8        | 5.89          |
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H    | 10       | 5.89          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H    | 10       | 5.89          |
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H    | 12       | 5.89          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H    | 12       | 5.89          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2  | 11       | 5.89          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3  | 11       | 5.89          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA   | 16       | 5.89          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2  | 5        | 5.89          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 7        | 5.89          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 7        | 5.89          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H    | 9        | 5.89          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H    | 9        | 5.89          |
| (1,4373) | 1:A:23:TYR:HA   | 1:A:35:HIS:HE1  | 19       | 5.89          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2  | 12       | 5.89          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 2        | 5.89          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H    | 6        | 5.89          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2  | 8        | 5.89          |
| (1,4143) | 1:A:22:GLN:HA   | 1:A:27:GLY:H    | 20       | 5.89          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H    | 3        | 5.89          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H    | 10       | 5.89          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3  | 16       | 5.89          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 9        | 5.89          |
| (1,3930) | 1:A:20:CYS:H    | 1:A:28:SER:HB3  | 17       | 5.89          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 17       | 5.89          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 17       | 5.89          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1  | 8        | 5.89          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2  | 8        | 5.89          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3  | 8        | 5.89          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 7        | 5.89          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 8        | 5.89          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 9        | 5.89          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H    | 20       | 5.89          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 9        | 5.89          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H    | 20       | 5.89          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 20       | 5.89          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 20       | 5.89          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 20       | 5.89          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA   | 7        | 5.89          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA   | 7        | 5.89          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA   | 7        | 5.89          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3  | 6        | 5.89          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3  | 20       | 5.89          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 1        | 5.89          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 1        | 5.89          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 4        | 5.89          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 4        | 5.89          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H    | 12       | 5.89          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 9        | 5.89          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 9        | 5.89          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H    | 12       | 5.89          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2  | 17       | 5.89          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE   | 2        | 5.89          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA   | 2        | 5.89          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2  | 8        | 5.89          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3  | 8        | 5.89          |
| (1,2835) | 1:A:11:TRP:HE1  | 1:A:13:GLY:HA2  | 17       | 5.89          |
| (1,2835) | 1:A:11:TRP:HE1  | 1:A:13:GLY:HA3  | 17       | 5.89          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE1  | 6        | 5.89          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE2  | 6        | 5.89          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD11 | 13       | 5.89          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD12 | 13       | 5.89          |
| (1,2647) | 1:A:11:TRP:HB2  | 1:A:18:LEU:HD13 | 13       | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 2        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 3        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 4        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 5        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 6        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 9        | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 10       | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H    | 17       | 5.89          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 18       | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 19       | 5.89          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 20       | 5.89          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1  | 6        | 5.89          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2  | 6        | 5.89          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 18       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 18       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 18       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 18       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 19       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 19       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 19       | 5.89          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 19       | 5.89          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 11       | 5.89          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 11       | 5.89          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 17       | 5.89          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 17       | 5.89          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 12       | 5.89          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 12       | 5.89          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 11       | 5.89          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 13       | 5.89          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 18       | 5.89          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 6        | 5.89          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 13       | 5.89          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 1        | 5.89          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 14       | 5.89          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 13       | 5.89          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 5        | 5.89          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 3        | 5.89          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 1        | 5.89          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 1        | 5.89          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 2        | 5.89          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 2        | 5.89          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 8        | 5.89          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 8        | 5.89          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 8        | 5.89          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 5        | 5.89          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 6        | 5.89          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 10       | 5.89          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 6        | 5.89          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 20       | 5.89          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 20       | 5.88          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,845)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HH2 | 13       | 5.88          |
| (1,647)  | 1:A:2:GLY:H     | 1:A:26:CYS:HA  | 19       | 5.88          |
| (1,643)  | 1:A:2:GLY:H     | 1:A:25:TYR:HB3 | 3        | 5.88          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2 | 16       | 5.88          |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H   | 4        | 5.88          |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H   | 4        | 5.88          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 12       | 5.88          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 18       | 5.88          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 19       | 5.88          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 7        | 5.88          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 3        | 5.88          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 1        | 5.88          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 1        | 5.88          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 1        | 5.88          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 1        | 5.88          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 18       | 5.88          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 1        | 5.88          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 12       | 5.88          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 15       | 5.88          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 15       | 5.88          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 12       | 5.88          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 16       | 5.88          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 18       | 5.88          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 19       | 5.88          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 19       | 5.88          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 19       | 5.88          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 19       | 5.88          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2 | 12       | 5.88          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2 | 12       | 5.88          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2 | 12       | 5.88          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 5        | 5.88          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 5        | 5.88          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 5        | 5.88          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 17       | 5.88          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 17       | 5.88          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 2        | 5.88          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 4        | 5.88          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 12       | 5.88          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 18       | 5.88          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 20       | 5.88          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 1        | 5.88          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 13       | 5.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2  | 10       | 5.88          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3  | 10       | 5.88          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 4        | 5.88          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 13       | 5.88          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2  | 18       | 5.88          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3  | 18       | 5.88          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 20       | 5.88          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 20       | 5.88          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 17       | 5.88          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 17       | 5.88          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1  | 3        | 5.88          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2  | 3        | 5.88          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 3        | 5.88          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 3        | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 7        | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 7        | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 7        | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 11       | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 11       | 5.88          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 11       | 5.88          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 7        | 5.88          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 8        | 5.88          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 12       | 5.88          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 14       | 5.88          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H    | 16       | 5.88          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 5        | 5.88          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 5        | 5.88          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 16       | 5.88          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 16       | 5.88          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 16       | 5.88          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 16       | 5.88          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 14       | 5.88          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 14       | 5.88          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1  | 8        | 5.88          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2  | 8        | 5.88          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1  | 8        | 5.88          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2  | 8        | 5.88          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 9        | 5.88          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 9        | 5.88          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 6        | 5.88          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 6        | 5.88          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 8        | 5.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 8        | 5.88          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 15       | 5.88          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 15       | 5.88          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 7        | 5.88          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 7        | 5.88          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 16       | 5.88          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 16       | 5.88          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 19       | 5.88          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 1        | 5.88          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 2        | 5.88          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 5        | 5.88          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 17       | 5.88          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 6        | 5.88          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 6        | 5.88          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 7        | 5.88          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 7        | 5.88          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2  | 15       | 5.88          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 3        | 5.88          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 6        | 5.88          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 4        | 5.88          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 5        | 5.88          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 14       | 5.88          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H    | 16       | 5.87          |
| (1,900)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE1  | 9        | 5.87          |
| (1,900)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE1  | 9        | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 13       | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 13       | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 13       | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 13       | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 13       | 5.87          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 13       | 5.87          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 18       | 5.87          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 16       | 5.87          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 16       | 5.87          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2  | 19       | 5.87          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3  | 19       | 5.87          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3  | 2        | 5.87          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 7        | 5.87          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 7        | 5.87          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 7        | 5.87          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 5        | 5.87          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 5        | 5.87          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H   | 15       | 5.87          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H   | 15       | 5.87          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 18       | 5.87          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 18       | 5.87          |
| (1,4678) | 1:A:27:GLY:H    | 1:A:30:PRO:HA  | 20       | 5.87          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 4        | 5.87          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 4        | 5.87          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 4        | 5.87          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 4        | 5.87          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 10       | 5.87          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 10       | 5.87          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 10       | 5.87          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 10       | 5.87          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 5        | 5.87          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 16       | 5.87          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 16       | 5.87          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 8        | 5.87          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 11       | 5.87          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 15       | 5.87          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 8        | 5.87          |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 15       | 5.87          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 7        | 5.87          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 11       | 5.87          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 15       | 5.87          |
| (1,4034) | 1:A:21:SER:H    | 1:A:31:LYS:HB2 | 15       | 5.87          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 6        | 5.87          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 8        | 5.87          |
| (1,3856) | 1:A:19:CYS:HA   | 1:A:24:GLY:H   | 12       | 5.87          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 18       | 5.87          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 18       | 5.87          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 18       | 5.87          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 2        | 5.87          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 2        | 5.87          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 2        | 5.87          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 12       | 5.87          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 12       | 5.87          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 12       | 5.87          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 9        | 5.87          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 9        | 5.87          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 9        | 5.87          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 11       | 5.87          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 11       | 5.87          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 11       | 5.87          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 12       | 5.87          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 19       | 5.87          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 9        | 5.87          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 2        | 5.87          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 2        | 5.87          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 11       | 5.87          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 11       | 5.87          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 14       | 5.87          |
| (1,3537) | 1:A:16:GLY:HA3  | 1:A:27:GLY:H   | 9        | 5.87          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 3        | 5.87          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 3        | 5.87          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 12       | 5.87          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 12       | 5.87          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 5        | 5.87          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 3        | 5.87          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 4        | 5.87          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 11       | 5.87          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 11       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 16       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 16       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 19       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 19       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 20       | 5.87          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 20       | 5.87          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 7        | 5.87          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 9        | 5.87          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 16       | 5.87          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 18       | 5.87          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 19       | 5.87          |
| (1,2527) | 1:A:10:GLY:HA3  | 1:A:13:GLY:H   | 15       | 5.87          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB2 | 15       | 5.87          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB3 | 15       | 5.87          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1 | 1        | 5.87          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2 | 1        | 5.87          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1 | 1        | 5.87          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2 | 1        | 5.87          |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE1 | 7        | 5.87          |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE2 | 7        | 5.87          |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 1        | 5.87          |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 11       | 5.87          |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 13       | 5.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 15       | 5.87          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 15       | 5.87          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA2 | 17       | 5.87          |
| (1,1741) | 1:A:6:GLN:HG3  | 1:A:10:GLY:HA3 | 17       | 5.87          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 3        | 5.87          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 9        | 5.87          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 9        | 5.87          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 19       | 5.87          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 19       | 5.87          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 8        | 5.87          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 16       | 5.87          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 20       | 5.87          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 15       | 5.87          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H   | 8        | 5.87          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1 | 5        | 5.87          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2 | 5        | 5.87          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 5        | 5.87          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 10       | 5.87          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 9        | 5.87          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 12       | 5.87          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 12       | 5.87          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 1        | 5.87          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 1        | 5.87          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 7        | 5.87          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 16       | 5.87          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 18       | 5.86          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 10       | 5.86          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2 | 18       | 5.86          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 12       | 5.86          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 12       | 5.86          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG2  | 9        | 5.86          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG2  | 9        | 5.86          |
| (1,543)  | 1:A:1:SER:HB2  | 1:A:9:PRO:HG3  | 9        | 5.86          |
| (1,543)  | 1:A:1:SER:HB3  | 1:A:9:PRO:HG3  | 9        | 5.86          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 11       | 5.86          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 11       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 17       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 17       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 17       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 17       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 17       | 5.86          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 17       | 5.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 4        | 5.86          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 4        | 5.86          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 12       | 5.86          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 12       | 5.86          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 11       | 5.86          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 2        | 5.86          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 4        | 5.86          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 8        | 5.86          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 8        | 5.86          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 12       | 5.86          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 12       | 5.86          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 14       | 5.86          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 14       | 5.86          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 19       | 5.86          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 19       | 5.86          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 4        | 5.86          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 4        | 5.86          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 2        | 5.86          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 4        | 5.86          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 6        | 5.86          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 10       | 5.86          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 17       | 5.86          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 11       | 5.86          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 11       | 5.86          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 1        | 5.86          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 9        | 5.86          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 13       | 5.86          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 1        | 5.86          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 9        | 5.86          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 17       | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 3        | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 3        | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 7        | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 7        | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 13       | 5.86          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 13       | 5.86          |
| (1,3827) | 1:A:19:CYS:H    | 1:A:24:GLY:H   | 7        | 5.86          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 17       | 5.86          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 17       | 5.86          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 17       | 5.86          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 1        | 5.86          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 1        | 5.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 1        | 5.86          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 3        | 5.86          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 3        | 5.86          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 3        | 5.86          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 16       | 5.86          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 16       | 5.86          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 16       | 5.86          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 4        | 5.86          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 4        | 5.86          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 4        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 6        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 7        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 7        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 7        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 7        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 7        | 5.86          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 7        | 5.86          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 9        | 5.86          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 10       | 5.86          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 10       | 5.86          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 15       | 5.86          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 15       | 5.86          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 8        | 5.86          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 5        | 5.86          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 15       | 5.86          |
| (1,3116) | 1:A:13:GLY:H    | 1:A:26:CYS:H   | 17       | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 7        | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 7        | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 9        | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 9        | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA2 | 14       | 5.86          |
| (1,3111) | 1:A:13:GLY:H    | 1:A:24:GLY:HA3 | 14       | 5.86          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2 | 16       | 5.86          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB3 | 16       | 5.86          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 20       | 5.86          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 20       | 5.86          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1 | 12       | 5.86          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 12       | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 5        | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 5        | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 6        | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 6        | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 10       | 5.86          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 10       | 5.86          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H   | 20       | 5.86          |
| (1,2748) | 1:A:11:TRP:HD1 | 1:A:25:TYR:H   | 13       | 5.86          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 4        | 5.86          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 4        | 5.86          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 4        | 5.86          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 4        | 5.86          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H   | 11       | 5.86          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 7        | 5.86          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 7        | 5.86          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 12       | 5.86          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 12       | 5.86          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 20       | 5.86          |
| (1,1982) | 1:A:7:CYS:HB2  | 1:A:11:TRP:HZ2 | 17       | 5.86          |
| (1,1982) | 1:A:7:CYS:HB3  | 1:A:11:TRP:HZ2 | 17       | 5.86          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 8        | 5.86          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 8        | 5.86          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 12       | 5.86          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 12       | 5.86          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA  | 17       | 5.86          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 15       | 5.86          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 15       | 5.86          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 15       | 5.86          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 5        | 5.86          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 14       | 5.86          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 1        | 5.86          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 1        | 5.86          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 18       | 5.86          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 18       | 5.86          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 7        | 5.86          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 4        | 5.86          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 10       | 5.86          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H   | 9        | 5.86          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG  | 2        | 5.86          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 10       | 5.86          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 10       | 5.86          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 3        | 5.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 3        | 5.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA2 | 4        | 5.86          |
| (1,1283) | 1:A:4:ASN:HD21 | 1:A:24:GLY:HA3 | 4        | 5.86          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 13       | 5.86          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 16       | 5.86          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 20       | 5.86          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 10       | 5.86          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 7        | 5.86          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 8        | 5.86          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 5        | 5.86          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 5        | 5.86          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 10       | 5.86          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 19       | 5.86          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 7        | 5.85          |
| (1,978)  | 1:A:3:PRO:HD2  | 1:A:26:CYS:H   | 19       | 5.85          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE1 | 4        | 5.85          |
| (1,866)  | 1:A:3:PRO:HB3  | 1:A:25:TYR:HE2 | 4        | 5.85          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA  | 18       | 5.85          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3 | 14       | 5.85          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 2        | 5.85          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 2        | 5.85          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 16       | 5.85          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 16       | 5.85          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 4        | 5.85          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 4        | 5.85          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 12       | 5.85          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 12       | 5.85          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 6        | 5.85          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 8        | 5.85          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 9        | 5.85          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 12       | 5.85          |
| (1,4580) | 1:A:25:TYR:HE1 | 1:A:27:GLY:H   | 18       | 5.85          |
| (1,4580) | 1:A:25:TYR:HE2 | 1:A:27:GLY:H   | 18       | 5.85          |
| (1,4580) | 1:A:25:TYR:HE1 | 1:A:27:GLY:H   | 20       | 5.85          |
| (1,4580) | 1:A:25:TYR:HE2 | 1:A:27:GLY:H   | 20       | 5.85          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG2 | 2        | 5.85          |
| (1,4452) | 1:A:24:GLY:H   | 1:A:31:LYS:HG3 | 2        | 5.85          |
| (1,4428) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB2 | 7        | 5.85          |
| (1,4428) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB2 | 7        | 5.85          |
| (1,4404) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HA  | 11       | 5.85          |
| (1,4404) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HA  | 11       | 5.85          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 7        | 5.85          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 16       | 5.85          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 18       | 5.85          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 19       | 5.85          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 20       | 5.85          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 18       | 5.85          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 12       | 5.85          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 12       | 5.85          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 12       | 5.85          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 4        | 5.85          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 14       | 5.85          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 12       | 5.85          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 12       | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 8        | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 8        | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 9        | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 9        | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 17       | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 17       | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 18       | 5.85          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 18       | 5.85          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 11       | 5.85          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 11       | 5.85          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 11       | 5.85          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 11       | 5.85          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 9        | 5.85          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 9        | 5.85          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 9        | 5.85          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 9        | 5.85          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 9        | 5.85          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 9        | 5.85          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 3        | 5.85          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 8        | 5.85          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 12       | 5.85          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 2        | 5.85          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 4        | 5.85          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 10       | 5.85          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 14       | 5.85          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 3        | 5.85          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 10       | 5.85          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 6        | 5.85          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2 | 11       | 5.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 11       | 5.85          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2 | 18       | 5.85          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 18       | 5.85          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2 | 19       | 5.85          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3 | 19       | 5.85          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 7        | 5.85          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 7        | 5.85          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 12       | 5.85          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 12       | 5.85          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 4        | 5.85          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 4        | 5.85          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H   | 1        | 5.85          |
| (1,2527) | 1:A:10:GLY:HA3 | 1:A:13:GLY:H   | 13       | 5.85          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 10       | 5.85          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 10       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 8        | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 8        | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 9        | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 9        | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 16       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 16       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 18       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 18       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 19       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 19       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 20       | 5.85          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 20       | 5.85          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1 | 14       | 5.85          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2 | 14       | 5.85          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 2        | 5.85          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 2        | 5.85          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 4        | 5.85          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 4        | 5.85          |
| (1,2007) | 1:A:7:CYS:HB2  | 1:A:28:SER:H   | 17       | 5.85          |
| (1,2007) | 1:A:7:CYS:HB3  | 1:A:28:SER:H   | 17       | 5.85          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 2        | 5.85          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 10       | 5.85          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 12       | 5.85          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 10       | 5.85          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 8        | 5.85          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 8        | 5.85          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 20       | 5.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 20       | 5.85          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 18       | 5.85          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 19       | 5.85          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 7        | 5.85          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 9        | 5.85          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H    | 16       | 5.85          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 3        | 5.85          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 18       | 5.85          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 19       | 5.85          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H    | 20       | 5.85          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 12       | 5.85          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2  | 18       | 5.85          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 6        | 5.85          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 6        | 5.85          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD21 | 15       | 5.85          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD22 | 15       | 5.85          |
| (1,1205) | 1:A:4:ASN:HB3  | 1:A:18:LEU:HD23 | 15       | 5.85          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 20       | 5.85          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 1        | 5.85          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 1        | 5.85          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 12       | 5.85          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 5        | 5.84          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 5        | 5.84          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 7        | 5.84          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 4        | 5.84          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 11       | 5.84          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H    | 3        | 5.84          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H    | 3        | 5.84          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 12       | 5.84          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 12       | 5.84          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1  | 16       | 5.84          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 18       | 5.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 18       | 5.84          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 3        | 5.84          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 6        | 5.84          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 1        | 5.84          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 14       | 5.84          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 14       | 5.84          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 1        | 5.84          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 14       | 5.84          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 5        | 5.84          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 5        | 5.84          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 5        | 5.84          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 10       | 5.84          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 11       | 5.84          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 8        | 5.84          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 10       | 5.84          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 10       | 5.84          |
| (1,4580) | 1:A:25:TYR:HE1  | 1:A:27:GLY:H   | 16       | 5.84          |
| (1,4580) | 1:A:25:TYR:HE2  | 1:A:27:GLY:H   | 16       | 5.84          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 13       | 5.84          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 13       | 5.84          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 15       | 5.84          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 15       | 5.84          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 15       | 5.84          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 15       | 5.84          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 10       | 5.84          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 10       | 5.84          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 10       | 5.84          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 10       | 5.84          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 12       | 5.84          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 12       | 5.84          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 1        | 5.84          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 1        | 5.84          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 15       | 5.84          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB2 | 17       | 5.84          |
| (1,4285) | 1:A:22:GLN:HE21 | 1:A:30:PRO:HB3 | 17       | 5.84          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 15       | 5.84          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 2        | 5.84          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 11       | 5.84          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 9        | 5.84          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 14       | 5.84          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 14       | 5.84          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 14       | 5.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 9        | 5.84          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 9        | 5.84          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 2        | 5.84          |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 10       | 5.84          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 4        | 5.84          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 19       | 5.84          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 19       | 5.84          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 10       | 5.84          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 12       | 5.84          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 12       | 5.84          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 12       | 5.84          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 3        | 5.84          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 3        | 5.84          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 3        | 5.84          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 20       | 5.84          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 20       | 5.84          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 20       | 5.84          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 3        | 5.84          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 3        | 5.84          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 8        | 5.84          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 16       | 5.84          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 15       | 5.84          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 18       | 5.84          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 19       | 5.84          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 2        | 5.84          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 2        | 5.84          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 4        | 5.84          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 4        | 5.84          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 3        | 5.84          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 3        | 5.84          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 18       | 5.84          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 18       | 5.84          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 7        | 5.84          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 2        | 5.84          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 4        | 5.84          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 5        | 5.84          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 3        | 5.84          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 10       | 5.84          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 13       | 5.84          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 8        | 5.84          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 8        | 5.84          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 19       | 5.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3  | 19       | 5.84          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2  | 2        | 5.84          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3  | 2        | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 1        | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 1        | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 1        | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD11 | 17       | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD12 | 17       | 5.84          |
| (1,2647) | 1:A:11:TRP:HB2 | 1:A:18:LEU:HD13 | 17       | 5.84          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 2        | 5.84          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 2        | 5.84          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2  | 11       | 5.84          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3  | 11       | 5.84          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 7        | 5.84          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 7        | 5.84          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 15       | 5.84          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 15       | 5.84          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H    | 4        | 5.84          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 13       | 5.84          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 13       | 5.84          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2  | 13       | 5.84          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3  | 13       | 5.84          |
| (1,1426) | 1:A:5:GLY:H    | 1:A:21:SER:HG   | 10       | 5.84          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 2        | 5.84          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 2        | 5.84          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 12       | 5.84          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 12       | 5.84          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 3        | 5.84          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 8        | 5.84          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 18       | 5.84          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 6        | 5.83          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 17       | 5.83          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 17       | 5.83          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 5        | 5.83          |
| (1,572)  | 1:A:1:SER:HB2  | 1:A:24:GLY:H    | 9        | 5.83          |
| (1,572)  | 1:A:1:SER:HB3  | 1:A:24:GLY:H    | 9        | 5.83          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 4        | 5.83          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 4        | 5.83          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 1        | 5.83          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 7        | 5.83          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 18       | 5.83          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 18       | 5.83          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 7        | 5.83          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 9        | 5.83          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 11       | 5.83          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 5        | 5.83          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 5        | 5.83          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 5        | 5.83          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 7        | 5.83          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 17       | 5.83          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 19       | 5.83          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 19       | 5.83          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 10       | 5.83          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 10       | 5.83          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 3        | 5.83          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 3        | 5.83          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 8        | 5.83          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 8        | 5.83          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 6        | 5.83          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 6        | 5.83          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 3        | 5.83          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 5        | 5.83          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 15       | 5.83          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 1        | 5.83          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 11       | 5.83          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 4        | 5.83          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 4        | 5.83          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2 | 11       | 5.83          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3 | 11       | 5.83          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 8        | 5.83          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 8        | 5.83          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 8        | 5.83          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 3        | 5.83          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 3        | 5.83          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 3        | 5.83          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 15       | 5.83          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 15       | 5.83          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 15       | 5.83          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 19       | 5.83          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 19       | 5.83          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 19       | 5.83          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 19       | 5.83          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 19       | 5.83          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 19       | 5.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3721) | 1:A:18:LEU:HB3 | 1:A:32:TYR:H    | 7        | 5.83          |
| (1,3718) | 1:A:18:LEU:HB3 | 1:A:29:GLY:HA3  | 20       | 5.83          |
| (1,3712) | 1:A:18:LEU:HB3 | 1:A:24:GLY:HA2  | 4        | 5.83          |
| (1,3712) | 1:A:18:LEU:HB3 | 1:A:24:GLY:HA3  | 4        | 5.83          |
| (1,3698) | 1:A:18:LEU:HB2 | 1:A:33:CYS:H    | 20       | 5.83          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA2  | 10       | 5.83          |
| (1,3695) | 1:A:18:LEU:HB2 | 1:A:29:GLY:HA3  | 10       | 5.83          |
| (1,3455) | 1:A:16:GLY:H   | 1:A:19:CYS:HB3  | 10       | 5.83          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA2  | 12       | 5.83          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA3  | 12       | 5.83          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2  | 1        | 5.83          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG   | 6        | 5.83          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB2  | 1        | 5.83          |
| (1,3051) | 1:A:12:GLY:HA3 | 1:A:18:LEU:HB3  | 1        | 5.83          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2  | 18       | 5.83          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3  | 18       | 5.83          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 8        | 5.83          |
| (1,2444) | 1:A:9:PRO:HD2  | 1:A:26:CYS:H    | 17       | 5.83          |
| (1,2444) | 1:A:9:PRO:HD3  | 1:A:26:CYS:H    | 17       | 5.83          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1  | 14       | 5.83          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2  | 14       | 5.83          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1  | 14       | 5.83          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2  | 14       | 5.83          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H    | 6        | 5.83          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H    | 6        | 5.83          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2  | 1        | 5.83          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3  | 1        | 5.83          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 11       | 5.83          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 11       | 5.83          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 11       | 5.83          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 10       | 5.83          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 10       | 5.83          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 10       | 5.83          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 10       | 5.83          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1  | 2        | 5.83          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2  | 2        | 5.83          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H    | 3        | 5.83          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H    | 5        | 5.83          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H    | 8        | 5.83          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 2        | 5.83          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 2        | 5.83          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 16       | 5.83          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 16       | 5.83          |
| (1,1717) | 1:A:6:GLN:HG2  | 1:A:23:TYR:HA  | 2        | 5.83          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 11       | 5.83          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 11       | 5.83          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 5        | 5.83          |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 10       | 5.83          |
| (1,1458) | 1:A:5:GLY:HA2  | 1:A:20:CYS:H   | 16       | 5.83          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 1        | 5.83          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 11       | 5.83          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 15       | 5.83          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 6        | 5.83          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 2        | 5.83          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 15       | 5.83          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 15       | 5.83          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 2        | 5.83          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 13       | 5.83          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 15       | 5.83          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1 | 5        | 5.83          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2 | 4        | 5.82          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 8        | 5.82          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 8        | 5.82          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 10       | 5.82          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 10       | 5.82          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2 | 19       | 5.82          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1 | 5        | 5.82          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA  | 7        | 5.82          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA  | 7        | 5.82          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA  | 9        | 5.82          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 5        | 5.82          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 17       | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 2        | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 4        | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 5        | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 13       | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 15       | 5.82          |
| (1,4741) | 1:A:28:SER:HB2 | 1:A:30:PRO:HB2 | 17       | 5.82          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 2        | 5.82          |
| (1,4725) | 1:A:28:SER:H   | 1:A:31:LYS:HA  | 4        | 5.82          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 10       | 5.82          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 10       | 5.82          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 6        | 5.82          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3 | 6        | 5.82          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H    | 6        | 5.82          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2  | 4        | 5.82          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3  | 4        | 5.82          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H    | 1        | 5.82          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H    | 1        | 5.82          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA   | 5        | 5.82          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA   | 5        | 5.82          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 2        | 5.82          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 2        | 5.82          |
| (1,4295) | 1:A:22:GLN:HE21 | 1:A:33:CYS:HA   | 1        | 5.82          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1  | 5        | 5.82          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 6        | 5.82          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 6        | 5.82          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 9        | 5.82          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 9        | 5.82          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H    | 6        | 5.82          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 18       | 5.82          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 20       | 5.82          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 12       | 5.82          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 19       | 5.82          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 19       | 5.82          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 17       | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2  | 6        | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3  | 6        | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2  | 12       | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3  | 12       | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB2  | 15       | 5.82          |
| (1,3918) | 1:A:20:CYS:H    | 1:A:23:TYR:HB3  | 15       | 5.82          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 4        | 5.82          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA   | 8        | 5.82          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA   | 8        | 5.82          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA   | 8        | 5.82          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA   | 20       | 5.82          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA   | 20       | 5.82          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA   | 20       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 16       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 16       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 16       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 18       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 18       | 5.82          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 18       | 5.82          |
| (1,3775) | 1:A:18:LEU:HD11 | 1:A:24:GLY:HA2  | 14       | 5.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3775) | 1:A:18:LEU:HD12 | 1:A:24:GLY:HA2 | 14       | 5.82          |
| (1,3775) | 1:A:18:LEU:HD13 | 1:A:24:GLY:HA2 | 14       | 5.82          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 12       | 5.82          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 2        | 5.82          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 4        | 5.82          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 8        | 5.82          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 8        | 5.82          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 9        | 5.82          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 6        | 5.82          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 15       | 5.82          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD1 | 14       | 5.82          |
| (1,3207) | 1:A:14:CYS:HB2  | 1:A:25:TYR:HD2 | 14       | 5.82          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 2        | 5.82          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 10       | 5.82          |
| (1,2462) | 1:A:10:GLY:H    | 1:A:11:TRP:HH2 | 2        | 5.82          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 9        | 5.82          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 9        | 5.82          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 16       | 5.82          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 16       | 5.82          |
| (1,2014) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HA  | 15       | 5.82          |
| (1,2014) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HA  | 15       | 5.82          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1 | 2        | 5.82          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2 | 2        | 5.82          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1 | 2        | 5.82          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2 | 2        | 5.82          |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE1 | 1        | 5.82          |
| (1,1971) | 1:A:7:CYS:H     | 1:A:32:TYR:HE2 | 1        | 5.82          |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 6        | 5.82          |
| (1,1947) | 1:A:7:CYS:H     | 1:A:22:GLN:H   | 20       | 5.82          |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H   | 12       | 5.82          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB2 | 10       | 5.82          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB3 | 10       | 5.82          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB2 | 18       | 5.82          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB3 | 18       | 5.82          |
| (1,1604) | 1:A:6:GLN:HB2   | 1:A:24:GLY:H   | 2        | 5.82          |
| (1,1604) | 1:A:6:GLN:HB2   | 1:A:24:GLY:H   | 6        | 5.82          |
| (1,1604) | 1:A:6:GLN:HB2   | 1:A:24:GLY:H   | 14       | 5.82          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3 | 17       | 5.82          |
| (1,1513) | 1:A:6:GLN:H     | 1:A:13:GLY:H   | 11       | 5.82          |
| (1,1484) | 1:A:5:GLY:HA3   | 1:A:20:CYS:H   | 15       | 5.82          |
| (1,1458) | 1:A:5:GLY:HA2   | 1:A:20:CYS:H   | 7        | 5.82          |
| (1,1221) | 1:A:4:ASN:HB3   | 1:A:24:GLY:HA2 | 19       | 5.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1127) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HD1 | 16       | 5.82          |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1 | 1        | 5.82          |
| (1,647)  | 1:A:2:GLY:H     | 1:A:26:CYS:HA  | 16       | 5.81          |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H   | 7        | 5.81          |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H   | 7        | 5.81          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB2  | 9        | 5.81          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB2  | 9        | 5.81          |
| (1,542)  | 1:A:1:SER:HB2   | 1:A:9:PRO:HB3  | 9        | 5.81          |
| (1,542)  | 1:A:1:SER:HB3   | 1:A:9:PRO:HB3  | 9        | 5.81          |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2 | 16       | 5.81          |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2 | 20       | 5.81          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 20       | 5.81          |
| (1,4872) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HB3 | 10       | 5.81          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 6        | 5.81          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 6        | 5.81          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 1        | 5.81          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 11       | 5.81          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 7        | 5.81          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 7        | 5.81          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 9        | 5.81          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 9        | 5.81          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 3        | 5.81          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 6        | 5.81          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 8        | 5.81          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 12       | 5.81          |
| (1,4741) | 1:A:28:SER:HB2  | 1:A:30:PRO:HB2 | 14       | 5.81          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 13       | 5.81          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 15       | 5.81          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 12       | 5.81          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 11       | 5.81          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 11       | 5.81          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 11       | 5.81          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 11       | 5.81          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 1        | 5.81          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 1        | 5.81          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 11       | 5.81          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 11       | 5.81          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 14       | 5.81          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 14       | 5.81          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 9        | 5.81          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 9        | 5.81          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 14       | 5.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 10       | 5.81          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 16       | 5.81          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 16       | 5.81          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 17       | 5.81          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 7        | 5.81          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 20       | 5.81          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 19       | 5.81          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 13       | 5.81          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 16       | 5.81          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 16       | 5.81          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 7        | 5.81          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 13       | 5.81          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 13       | 5.81          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 13       | 5.81          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 16       | 5.81          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 16       | 5.81          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 16       | 5.81          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 18       | 5.81          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 18       | 5.81          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 18       | 5.81          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 18       | 5.81          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 19       | 5.81          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 18       | 5.81          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 19       | 5.81          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 9        | 5.81          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 7        | 5.81          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 14       | 5.81          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 14       | 5.81          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 5        | 5.81          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H   | 6        | 5.81          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 4        | 5.81          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 4        | 5.81          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB2 | 16       | 5.81          |
| (1,3279) | 1:A:15:ARG:H    | 1:A:33:CYS:HB3 | 16       | 5.81          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 13       | 5.81          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 1        | 5.81          |
| (1,3088) | 1:A:13:GLY:H    | 1:A:15:ARG:HE  | 10       | 5.81          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2 | 7        | 5.81          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB3 | 7        | 5.81          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB2 | 13       | 5.81          |
| (1,3051) | 1:A:12:GLY:HA3  | 1:A:18:LEU:HB3 | 13       | 5.81          |
| (1,2801) | 1:A:11:TRP:HE3  | 1:A:24:GLY:HA2 | 3        | 5.81          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 3        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 3        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 4        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 5        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 6        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 9        | 5.81          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 10       | 5.81          |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 17       | 5.81          |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 17       | 5.81          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 1        | 5.81          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 11       | 5.81          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 13       | 5.81          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 13       | 5.81          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 13       | 5.81          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 16       | 5.81          |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 16       | 5.81          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 16       | 5.81          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 16       | 5.81          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 11       | 5.81          |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 11       | 5.81          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 18       | 5.81          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 19       | 5.81          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 13       | 5.81          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 13       | 5.81          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 7        | 5.81          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 7        | 5.81          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 19       | 5.81          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 19       | 5.81          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA2 | 17       | 5.81          |
| (1,1746) | 1:A:6:GLN:HG3  | 1:A:12:GLY:HA3 | 17       | 5.81          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2 | 17       | 5.81          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3 | 17       | 5.81          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 13       | 5.81          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 15       | 5.81          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 9        | 5.81          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 5        | 5.81          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 5        | 5.81          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 16       | 5.81          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2 | 1        | 5.81          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 8        | 5.81          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 8        | 5.81          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 17       | 5.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1 | 1        | 5.81          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2 | 1        | 5.81          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1 | 8        | 5.81          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2 | 8        | 5.81          |
| (1,1003) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HE1 | 11       | 5.81          |
| (1,647)  | 1:A:2:GLY:H     | 1:A:26:CYS:HA  | 10       | 5.8           |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 3        | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 18       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 18       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 18       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 19       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 19       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 19       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 20       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 20       | 5.8           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 20       | 5.8           |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 16       | 5.8           |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 16       | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 3        | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 3        | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 5        | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 5        | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 6        | 5.8           |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 6        | 5.8           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 2        | 5.8           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 2        | 5.8           |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 11       | 5.8           |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 18       | 5.8           |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 20       | 5.8           |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 18       | 5.8           |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 18       | 5.8           |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 9        | 5.8           |
| (1,3953) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HB3 | 3        | 5.8           |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 5        | 5.8           |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 17       | 5.8           |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 17       | 5.8           |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 17       | 5.8           |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 5        | 5.8           |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 6        | 5.8           |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 16       | 5.8           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 14       | 5.8           |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 14       | 5.8           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 4        | 5.8           |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 16       | 5.8           |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 16       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 7        | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 8        | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 12       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 14       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 16       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 18       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 19       | 5.8           |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 20       | 5.8           |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 4        | 5.8           |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 4        | 5.8           |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 4        | 5.8           |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 4        | 5.8           |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 3        | 5.8           |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 3        | 5.8           |
| (1,2435) | 1:A:9:PRO:HD2  | 1:A:20:CYS:H   | 4        | 5.8           |
| (1,2435) | 1:A:9:PRO:HD3  | 1:A:20:CYS:H   | 4        | 5.8           |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 14       | 5.8           |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 15       | 5.8           |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 7        | 5.8           |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 13       | 5.8           |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 13       | 5.8           |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD1 | 7        | 5.8           |
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 7        | 5.8           |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 7        | 5.8           |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 7        | 5.8           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 4        | 5.8           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 4        | 5.8           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE1 | 13       | 5.8           |
| (1,1971) | 1:A:7:CYS:H    | 1:A:32:TYR:HE2 | 13       | 5.8           |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 9        | 5.8           |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 14       | 5.8           |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 5        | 5.8           |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 5        | 5.8           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 14       | 5.8           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 14       | 5.8           |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 14       | 5.8           |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 14       | 5.8           |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 3        | 5.8           |
| (1,1604) | 1:A:6:GLN:HB2  | 1:A:24:GLY:H   | 4        | 5.8           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1513) | 1:A:6:GLN:H     | 1:A:13:GLY:H   | 12       | 5.8           |
| (1,1412) | 1:A:5:GLY:H     | 1:A:14:CYS:HB2 | 4        | 5.8           |
| (1,1192) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ3 | 1        | 5.8           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA2 | 15       | 5.8           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 15       | 5.8           |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 9        | 5.79          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 16       | 5.79          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 16       | 5.79          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2 | 1        | 5.79          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2 | 10       | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 8        | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 8        | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 12       | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 12       | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 17       | 5.79          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 17       | 5.79          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 19       | 5.79          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 19       | 5.79          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 19       | 5.79          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 5        | 5.79          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 19       | 5.79          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 18       | 5.79          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 18       | 5.79          |
| (1,4645) | 1:A:26:CYS:HA   | 1:A:33:CYS:HB2 | 14       | 5.79          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 4        | 5.79          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 4        | 5.79          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 7        | 5.79          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 7        | 5.79          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 17       | 5.79          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 17       | 5.79          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 17       | 5.79          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 17       | 5.79          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 20       | 5.79          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 19       | 5.79          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 17       | 5.79          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 7        | 5.79          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H   | 11       | 5.79          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 13       | 5.79          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 13       | 5.79          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 3        | 5.79          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 3        | 5.79          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 3        | 5.79          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H    | 19       | 5.79          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H    | 19       | 5.79          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H    | 19       | 5.79          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H    | 20       | 5.79          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H    | 20       | 5.79          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H    | 20       | 5.79          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 1        | 5.79          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3  | 16       | 5.79          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 6        | 5.79          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 6        | 5.79          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 12       | 5.79          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 12       | 5.79          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 15       | 5.79          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 15       | 5.79          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 14       | 5.79          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 1        | 5.79          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 1        | 5.79          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H    | 7        | 5.79          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2  | 2        | 5.79          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA   | 8        | 5.79          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA   | 12       | 5.79          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H    | 12       | 5.79          |
| (1,2462) | 1:A:10:GLY:H    | 1:A:11:TRP:HH2  | 11       | 5.79          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1  | 6        | 5.79          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2  | 6        | 5.79          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1  | 6        | 5.79          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2  | 6        | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 7        | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 8        | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 12       | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 16       | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 18       | 5.79          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3  | 19       | 5.79          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB2  | 12       | 5.79          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB3  | 12       | 5.79          |
| (1,2124) | 1:A:8:GLY:HA3   | 1:A:26:CYS:H    | 16       | 5.79          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1  | 5        | 5.79          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2  | 5        | 5.79          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD11 | 13       | 5.79          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD12 | 13       | 5.79          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD13 | 13       | 5.79          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1  | 20       | 5.79          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2002) | 1:A:7:CYS:HB2  | 1:A:23:TYR:HD2 | 20       | 5.79          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD1 | 20       | 5.79          |
| (1,2002) | 1:A:7:CYS:HB3  | 1:A:23:TYR:HD2 | 20       | 5.79          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 7        | 5.79          |
| (1,1947) | 1:A:7:CYS:H    | 1:A:22:GLN:H   | 16       | 5.79          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 17       | 5.79          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 12       | 5.79          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 12       | 5.79          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 6        | 5.79          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 2        | 5.79          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 6        | 5.79          |
| (1,1221) | 1:A:4:ASN:HB3  | 1:A:24:GLY:HA2 | 7        | 5.79          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2 | 3        | 5.79          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 14       | 5.79          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 9        | 5.79          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 9        | 5.79          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 15       | 5.79          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 5        | 5.78          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA  | 9        | 5.78          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3 | 6        | 5.78          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB2 | 17       | 5.78          |
| (1,626)  | 1:A:2:GLY:H    | 1:A:18:LEU:HB3 | 17       | 5.78          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 18       | 5.78          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 18       | 5.78          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 8        | 5.78          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 8        | 5.78          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 20       | 5.78          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 20       | 5.78          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 20       | 5.78          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 9        | 5.78          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 17       | 5.78          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 17       | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 2        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 2        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 4        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 4        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 9        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 9        | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 11       | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 11       | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB2 | 14       | 5.78          |
| (1,4723) | 1:A:28:SER:H   | 1:A:30:PRO:HB3 | 14       | 5.78          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2  | 16       | 5.78          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3  | 16       | 5.78          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 13       | 5.78          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 13       | 5.78          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H    | 17       | 5.78          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H    | 17       | 5.78          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 4        | 5.78          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 4        | 5.78          |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H    | 1        | 5.78          |
| (1,4252) | 1:A:22:GLN:HG3  | 1:A:26:CYS:HA   | 1        | 5.78          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 16       | 5.78          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 7        | 5.78          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 7        | 5.78          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 4        | 5.78          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 4        | 5.78          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 1        | 5.78          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 8        | 5.78          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 15       | 5.78          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 9        | 5.78          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 9        | 5.78          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 9        | 5.78          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 9        | 5.78          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H    | 18       | 5.78          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H    | 18       | 5.78          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H    | 18       | 5.78          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 9        | 5.78          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2  | 20       | 5.78          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3  | 20       | 5.78          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB2  | 12       | 5.78          |
| (1,3587) | 1:A:17:GLY:H    | 1:A:35:HIS:HB3  | 12       | 5.78          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2  | 12       | 5.78          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3  | 12       | 5.78          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3  | 3        | 5.78          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3  | 3        | 5.78          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2  | 11       | 5.78          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3  | 11       | 5.78          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1  | 20       | 5.78          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2  | 20       | 5.78          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H    | 9        | 5.78          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1  | 12       | 5.78          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2  | 12       | 5.78          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG   | 5        | 5.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE  | 3        | 5.78          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 5        | 5.78          |
| (1,3187) | 1:A:14:CYS:H   | 1:A:27:GLY:HA2 | 6        | 5.78          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA  | 9        | 5.78          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 1        | 5.78          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 1        | 5.78          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA2 | 14       | 5.78          |
| (1,2801) | 1:A:11:TRP:HE3 | 1:A:24:GLY:HA3 | 14       | 5.78          |
| (1,2462) | 1:A:10:GLY:H   | 1:A:11:TRP:HH2 | 1        | 5.78          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 3        | 5.78          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 3        | 5.78          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 3        | 5.78          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 3        | 5.78          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2 | 7        | 5.78          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 9        | 5.78          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 20       | 5.78          |
| (1,2221) | 1:A:9:PRO:HB2  | 1:A:24:GLY:HA2 | 17       | 5.78          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 9        | 5.78          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 18       | 5.78          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 19       | 5.78          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1 | 7        | 5.78          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2 | 7        | 5.78          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 14       | 5.78          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 7        | 5.78          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 16       | 5.78          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H   | 19       | 5.78          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 14       | 5.78          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2 | 17       | 5.78          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 3        | 5.78          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 11       | 5.78          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 13       | 5.78          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 13       | 5.78          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 11       | 5.78          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 1        | 5.77          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 4        | 5.77          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2 | 12       | 5.77          |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA  | 2        | 5.77          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 6        | 5.77          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 6        | 5.77          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2 | 8        | 5.77          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2 | 12       | 5.77          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2 | 13       | 5.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 7        | 5.77          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 7        | 5.77          |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 7        | 5.77          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 16       | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 1        | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 1        | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 7        | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 7        | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 13       | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 13       | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 15       | 5.77          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 15       | 5.77          |
| (1,4691) | 1:A:27:GLY:H    | 1:A:35:HIS:H   | 9        | 5.77          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 9        | 5.77          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 9        | 5.77          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 3        | 5.77          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 4        | 5.77          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 6        | 5.77          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 20       | 5.77          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 20       | 5.77          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 17       | 5.77          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 5        | 5.77          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 10       | 5.77          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 14       | 5.77          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 5        | 5.77          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 5        | 5.77          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD2 | 8        | 5.77          |
| (1,3842) | 1:A:19:CYS:H    | 1:A:31:LYS:HD3 | 8        | 5.77          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 12       | 5.77          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 12       | 5.77          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 12       | 5.77          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 10       | 5.77          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 10       | 5.77          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 10       | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 1        | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 1        | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 2        | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 2        | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 10       | 5.77          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 10       | 5.77          |
| (1,3668) | 1:A:18:LEU:HA   | 1:A:25:TYR:HB3 | 7        | 5.77          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 3        | 5.77          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3510) | 1:A:16:GLY:HA2 | 1:A:27:GLY:H    | 14       | 5.77          |
| (1,3340) | 1:A:15:ARG:HB3 | 1:A:26:CYS:H    | 13       | 5.77          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H    | 17       | 5.77          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H    | 16       | 5.77          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2  | 15       | 5.77          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3  | 15       | 5.77          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H    | 20       | 5.77          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 8        | 5.77          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 8        | 5.77          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 9        | 5.77          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 9        | 5.77          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 12       | 5.77          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 12       | 5.77          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 12       | 5.77          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 12       | 5.77          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 16       | 5.77          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 16       | 5.77          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 4        | 5.77          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 5        | 5.77          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 8        | 5.77          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2  | 13       | 5.77          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3  | 13       | 5.77          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 3        | 5.77          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 1        | 5.76          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 1        | 5.76          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 1        | 5.76          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 1        | 5.76          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 1        | 5.76          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 1        | 5.76          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 7        | 5.76          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 9        | 5.76          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 4        | 5.76          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 4        | 5.76          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2  | 17       | 5.76          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3  | 17       | 5.76          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 15       | 5.76          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 17       | 5.76          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 17       | 5.76          |
| (1,4902) | 1:A:31:LYS:HB3 | 1:A:35:HIS:HE1  | 7        | 5.76          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 2        | 5.76          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 2        | 5.76          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 9        | 5.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 9        | 5.76          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 20       | 5.76          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 20       | 5.76          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 7        | 5.76          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 3        | 5.76          |
| (1,4828) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HA  | 19       | 5.76          |
| (1,4828) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HA  | 19       | 5.76          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 5        | 5.76          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 19       | 5.76          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 19       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 18       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 18       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 19       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 19       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB2 | 20       | 5.76          |
| (1,4723) | 1:A:28:SER:H    | 1:A:30:PRO:HB3 | 20       | 5.76          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 1        | 5.76          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 1        | 5.76          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 1        | 5.76          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 4        | 5.76          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 4        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 3        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 3        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 4        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 4        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 6        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 6        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 7        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 7        | 5.76          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 17       | 5.76          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 17       | 5.76          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 11       | 5.76          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 13       | 5.76          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 15       | 5.76          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 15       | 5.76          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 5        | 5.76          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 5        | 5.76          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 17       | 5.76          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 17       | 5.76          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H   | 10       | 5.76          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 8        | 5.76          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 12       | 5.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 11       | 5.76          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 11       | 5.76          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 20       | 5.76          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 20       | 5.76          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 13       | 5.76          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 13       | 5.76          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 13       | 5.76          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 13       | 5.76          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 1        | 5.76          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 1        | 5.76          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 1        | 5.76          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 4        | 5.76          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 4        | 5.76          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 4        | 5.76          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 2        | 5.76          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 2        | 5.76          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 2        | 5.76          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 13       | 5.76          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 13       | 5.76          |
| (1,3686) | 1:A:18:LEU:HB2  | 1:A:25:TYR:HB3 | 12       | 5.76          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 8        | 5.76          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 5        | 5.76          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 6        | 5.76          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 9        | 5.76          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 12       | 5.76          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 12       | 5.76          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB2 | 13       | 5.76          |
| (1,3268) | 1:A:15:ARG:H    | 1:A:25:TYR:HB3 | 13       | 5.76          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 8        | 5.76          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 8        | 5.76          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 9        | 5.76          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 9        | 5.76          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 20       | 5.76          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2 | 5        | 5.76          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3 | 5        | 5.76          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 11       | 5.76          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 11       | 5.76          |
| (1,2462) | 1:A:10:GLY:H    | 1:A:11:TRP:HH2 | 15       | 5.76          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 12       | 5.76          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 12       | 5.76          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1 | 12       | 5.76          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2 | 12       | 5.76          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD11 | 1        | 5.76          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD12 | 1        | 5.76          |
| (1,2039) | 1:A:8:GLY:H    | 1:A:18:LEU:HD13 | 1        | 5.76          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 20       | 5.76          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 20       | 5.76          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 13       | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 7        | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 7        | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 8        | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 8        | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 19       | 5.76          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 19       | 5.76          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 10       | 5.76          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 14       | 5.76          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 4        | 5.76          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 8        | 5.76          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 18       | 5.76          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 12       | 5.76          |
| (1,1158) | 1:A:4:ASN:HB2  | 1:A:24:GLY:HA2  | 4        | 5.76          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 14       | 5.76          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 20       | 5.76          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 20       | 5.76          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 17       | 5.76          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 14       | 5.75          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 20       | 5.75          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3  | 16       | 5.75          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3  | 16       | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 5        | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 5        | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 5        | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 5        | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 5        | 5.75          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 5        | 5.75          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 11       | 5.75          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H    | 13       | 5.75          |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H    | 15       | 5.75          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 11       | 5.75          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 3        | 5.75          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2  | 9        | 5.75          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2  | 9        | 5.75          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3  | 9        | 5.75          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3  | 9        | 5.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 13       | 5.75          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 13       | 5.75          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 14       | 5.75          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 14       | 5.75          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 15       | 5.75          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 15       | 5.75          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 1        | 5.75          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 7        | 5.75          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 7        | 5.75          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 2        | 5.75          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 5        | 5.75          |
| (1,4342) | 1:A:23:TYR:H    | 1:A:26:CYS:HB2 | 10       | 5.75          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 16       | 5.75          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 16       | 5.75          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 10       | 5.75          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 15       | 5.75          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 15       | 5.75          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 8        | 5.75          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 8        | 5.75          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 17       | 5.75          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 17       | 5.75          |
| (1,4254) | 1:A:22:GLN:HG3  | 1:A:27:GLY:H   | 20       | 5.75          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 16       | 5.75          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 4        | 5.75          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 4        | 5.75          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 11       | 5.75          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 11       | 5.75          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 16       | 5.75          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 18       | 5.75          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 19       | 5.75          |
| (1,4149) | 1:A:22:GLN:HA   | 1:A:32:TYR:HB2 | 20       | 5.75          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 6        | 5.75          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3 | 17       | 5.75          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 9        | 5.75          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 15       | 5.75          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 15       | 5.75          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 15       | 5.75          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 17       | 5.75          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 17       | 5.75          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 17       | 5.75          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 8        | 5.75          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 8        | 5.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 8        | 5.75          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 3        | 5.75          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 17       | 5.75          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 18       | 5.75          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 18       | 5.75          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 19       | 5.75          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 19       | 5.75          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 9        | 5.75          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 14       | 5.75          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 7        | 5.75          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 18       | 5.75          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 19       | 5.75          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 13       | 5.75          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 13       | 5.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 5        | 5.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 5        | 5.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 6        | 5.75          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 6        | 5.75          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 10       | 5.75          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 10       | 5.75          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 13       | 5.75          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 11       | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 7        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 7        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 7        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 7        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 9        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 9        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 9        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 9        | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 16       | 5.75          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 16       | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 16       | 5.75          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 16       | 5.75          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 16       | 5.75          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 19       | 5.75          |
| (1,2331) | 1:A:9:PRO:HG2   | 1:A:24:GLY:HA2 | 7        | 5.75          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3 | 3        | 5.75          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 2        | 5.75          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 4        | 5.75          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 5        | 5.75          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 6        | 5.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2  | 10       | 5.75          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 8        | 5.75          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 8        | 5.75          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 15       | 5.75          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 15       | 5.75          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 11       | 5.75          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 11       | 5.75          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 18       | 5.75          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 18       | 5.75          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 8        | 5.75          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 8        | 5.75          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 9        | 5.75          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 9        | 5.75          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 2        | 5.75          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 3        | 5.75          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 12       | 5.75          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 3        | 5.75          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 3        | 5.75          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 20       | 5.75          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE1  | 2        | 5.75          |
| (1,1238) | 1:A:4:ASN:HB3  | 1:A:32:TYR:HE2  | 2        | 5.75          |
| (1,1154) | 1:A:4:ASN:HB2  | 1:A:23:TYR:HB2  | 14       | 5.75          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 7        | 5.75          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 7        | 5.75          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 17       | 5.74          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 17       | 5.74          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 16       | 5.74          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 19       | 5.74          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE1  | 14       | 5.74          |
| (1,528)  | 1:A:1:SER:HA   | 1:A:25:TYR:HE2  | 14       | 5.74          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 10       | 5.74          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 10       | 5.74          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H    | 2        | 5.74          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H    | 4        | 5.74          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3  | 13       | 5.74          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1  | 7        | 5.74          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2  | 7        | 5.74          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3  | 7        | 5.74          |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H    | 6        | 5.74          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H    | 8        | 5.74          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H    | 8        | 5.74          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2  | 7        | 5.74          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3  | 7        | 5.74          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 13       | 5.74          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 13       | 5.74          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 4        | 5.74          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 9        | 5.74          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 13       | 5.74          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA   | 1        | 5.74          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1  | 6        | 5.74          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2  | 6        | 5.74          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 9        | 5.74          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1  | 10       | 5.74          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2  | 10       | 5.74          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1  | 17       | 5.74          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2  | 17       | 5.74          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 1        | 5.74          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 1        | 5.74          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 2        | 5.74          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 2        | 5.74          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 2        | 5.74          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 7        | 5.74          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 7        | 5.74          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 7        | 5.74          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 11       | 5.74          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 5        | 5.74          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 5        | 5.74          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 11       | 5.74          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 11       | 5.74          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H    | 7        | 5.74          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 16       | 5.74          |
| (1,3456) | 1:A:16:GLY:H    | 1:A:20:CYS:H    | 17       | 5.74          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2  | 18       | 5.74          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3  | 18       | 5.74          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3 | 2        | 5.74          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3 | 2        | 5.74          |
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA  | 16       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 16       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 16       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 18       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 18       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 19       | 5.74          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 19       | 5.74          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H   | 1        | 5.74          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 1        | 5.74          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1 | 5        | 5.74          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2 | 5        | 5.74          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 5        | 5.74          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 5        | 5.74          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2 | 18       | 5.74          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 2        | 5.74          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 4        | 5.74          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 5        | 5.74          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3 | 6        | 5.74          |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2 | 3        | 5.74          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 14       | 5.74          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1 | 13       | 5.74          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2 | 13       | 5.74          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 18       | 5.74          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 18       | 5.74          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA  | 19       | 5.74          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA  | 19       | 5.74          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 20       | 5.74          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 20       | 5.74          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1 | 3        | 5.74          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2 | 3        | 5.74          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 18       | 5.74          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H   | 20       | 5.74          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 2        | 5.74          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2 | 6        | 5.74          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 13       | 5.74          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 13       | 5.74          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 6        | 5.74          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 10       | 5.74          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1 | 5        | 5.74          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2 | 5        | 5.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 7        | 5.74          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 12       | 5.74          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 18       | 5.74          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 19       | 5.74          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 20       | 5.74          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 20       | 5.74          |
| (1,1002) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HD1  | 9        | 5.74          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 17       | 5.73          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 17       | 5.73          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 17       | 5.73          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 17       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 13       | 5.73          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 13       | 5.73          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 15       | 5.73          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 8        | 5.73          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 18       | 5.73          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H    | 2        | 5.73          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H    | 2        | 5.73          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 3        | 5.73          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 3        | 5.73          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 8        | 5.73          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 8        | 5.73          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 20       | 5.73          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 20       | 5.73          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 7        | 5.73          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 7        | 5.73          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 8        | 5.73          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 3        | 5.73          |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H    | 5        | 5.73          |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H    | 5        | 5.73          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB1  | 2        | 5.73          |
| (1,4459) | 1:A:24:GLY:H   | 1:A:34:ALA:HB2  | 2        | 5.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 2        | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 4        | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 4        | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 4        | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 13       | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 13       | 5.73          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 13       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1 | 14       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2 | 14       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3 | 14       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1 | 14       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2 | 14       | 5.73          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3 | 14       | 5.73          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 8        | 5.73          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 8        | 5.73          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 11       | 5.73          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 11       | 5.73          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 2        | 5.73          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 2        | 5.73          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 19       | 5.73          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 20       | 5.73          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 11       | 5.73          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 11       | 5.73          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 6        | 5.73          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 6        | 5.73          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 19       | 5.73          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 19       | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 3        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 3        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 4        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 4        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 6        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 6        | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 12       | 5.73          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 12       | 5.73          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 1        | 5.73          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H   | 10       | 5.73          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H   | 10       | 5.73          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H   | 10       | 5.73          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 3        | 5.73          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 3        | 5.73          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 3        | 5.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 3        | 5.73          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 3        | 5.73          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 3        | 5.73          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 16       | 5.73          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 16       | 5.73          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 16       | 5.73          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 20       | 5.73          |
| (1,3608) | 1:A:17:GLY:HA2  | 1:A:27:GLY:HA3 | 16       | 5.73          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 16       | 5.73          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 16       | 5.73          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 15       | 5.73          |
| (1,2253) | 1:A:9:PRO:HB3   | 1:A:12:GLY:HA3 | 10       | 5.73          |
| (1,2014) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HA  | 16       | 5.73          |
| (1,2014) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HA  | 16       | 5.73          |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H   | 8        | 5.73          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB2 | 12       | 5.73          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB3 | 12       | 5.73          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB2 | 14       | 5.73          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB3 | 14       | 5.73          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA2  | 1        | 5.73          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA3  | 1        | 5.73          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA2  | 13       | 5.73          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA3  | 13       | 5.73          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA2 | 20       | 5.73          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA3 | 20       | 5.73          |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE1 | 6        | 5.73          |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE2 | 6        | 5.73          |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD1 | 6        | 5.73          |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD2 | 6        | 5.73          |
| (1,1513) | 1:A:6:GLN:H     | 1:A:13:GLY:H   | 14       | 5.73          |
| (1,1418) | 1:A:5:GLY:H     | 1:A:18:LEU:HB3 | 10       | 5.73          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD1 | 10       | 5.73          |
| (1,1218) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HD2 | 10       | 5.73          |
| (1,1127) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HD1 | 17       | 5.73          |
| (1,1061) | 1:A:4:ASN:H     | 1:A:11:TRP:HE1 | 8        | 5.73          |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1 | 11       | 5.73          |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1 | 15       | 5.73          |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1 | 18       | 5.73          |
| (1,1060) | 1:A:4:ASN:H     | 1:A:11:TRP:HD1 | 19       | 5.73          |
| (1,1003) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HE1 | 10       | 5.73          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG2 | 14       | 5.72          |
| (1,619)  | 1:A:2:GLY:H     | 1:A:15:ARG:HG3 | 14       | 5.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,554)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HE  | 15       | 5.72          |
| (1,554)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HE  | 15       | 5.72          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 3        | 5.72          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 3        | 5.72          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 3        | 5.72          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 3        | 5.72          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2 | 11       | 5.72          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2 | 11       | 5.72          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2 | 1        | 5.72          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3 | 1        | 5.72          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 5        | 5.72          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 5        | 5.72          |
| (1,4757) | 1:A:28:SER:HB3  | 1:A:34:ALA:H   | 8        | 5.72          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 18       | 5.72          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 19       | 5.72          |
| (1,4725) | 1:A:28:SER:H    | 1:A:31:LYS:HA  | 20       | 5.72          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 12       | 5.72          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 12       | 5.72          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 12       | 5.72          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 12       | 5.72          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 12       | 5.72          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 11       | 5.72          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 11       | 5.72          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 15       | 5.72          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB1 | 15       | 5.72          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB2 | 15       | 5.72          |
| (1,4459) | 1:A:24:GLY:H    | 1:A:34:ALA:HB3 | 15       | 5.72          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 7        | 5.72          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 7        | 5.72          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA2 | 16       | 5.72          |
| (1,4280) | 1:A:22:GLN:HE21 | 1:A:27:GLY:HA3 | 16       | 5.72          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 8        | 5.72          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 1        | 5.72          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 19       | 5.72          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H   | 20       | 5.72          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 15       | 5.72          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 9        | 5.72          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 9        | 5.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 20       | 5.72          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 20       | 5.72          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 5        | 5.72          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 9        | 5.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 10       | 5.72          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 10       | 5.72          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 11       | 5.72          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 11       | 5.72          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 10       | 5.72          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 11       | 5.72          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 14       | 5.72          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 5        | 5.72          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 5        | 5.72          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 5        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 4        | 5.72          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1 | 12       | 5.72          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2 | 12       | 5.72          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1 | 12       | 5.72          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2 | 12       | 5.72          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1 | 12       | 5.72          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2 | 12       | 5.72          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 16       | 5.72          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 16       | 5.72          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 17       | 5.72          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 17       | 5.72          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 12       | 5.72          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 10       | 5.72          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 10       | 5.72          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB2 | 17       | 5.72          |
| (1,3488) | 1:A:16:GLY:H    | 1:A:33:CYS:HB3 | 17       | 5.72          |
| (1,3455) | 1:A:16:GLY:H    | 1:A:19:CYS:HB3 | 17       | 5.72          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 15       | 5.72          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 8        | 5.72          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 11       | 5.72          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 14       | 5.72          |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 14       | 5.72          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 15       | 5.72          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 7        | 5.72          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 18       | 5.72          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 19       | 5.72          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 20       | 5.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2  | 9        | 5.72          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 18       | 5.72          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA   | 19       | 5.72          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 15       | 5.72          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 12       | 5.72          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 12       | 5.72          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1  | 8        | 5.72          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2  | 8        | 5.72          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1  | 8        | 5.72          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2  | 8        | 5.72          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2  | 16       | 5.72          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2  | 18       | 5.72          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2  | 19       | 5.72          |
| (1,2253) | 1:A:9:PRO:HB3  | 1:A:12:GLY:HA3  | 17       | 5.72          |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2  | 9        | 5.72          |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2  | 20       | 5.72          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H    | 8        | 5.72          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 10       | 5.72          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 10       | 5.72          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 15       | 5.72          |
| (1,1801) | 1:A:6:GLN:HE21 | 1:A:12:GLY:H    | 17       | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 7        | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 7        | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 16       | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 16       | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 19       | 5.72          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 19       | 5.72          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 3        | 5.72          |
| (1,1513) | 1:A:6:GLN:H    | 1:A:13:GLY:H    | 17       | 5.72          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 10       | 5.72          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 16       | 5.72          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 19       | 5.72          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 5        | 5.72          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1  | 2        | 5.72          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 18       | 5.72          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 18       | 5.72          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 16       | 5.72          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 7        | 5.72          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 6        | 5.72          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 14       | 5.72          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 12       | 5.71          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 12       | 5.71          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD13 | 12       | 5.71          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD21 | 12       | 5.71          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD22 | 12       | 5.71          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD23 | 12       | 5.71          |
| (1,839)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HB3  | 17       | 5.71          |
| (1,599)  | 1:A:2:GLY:H     | 1:A:4:ASN:HD22  | 6        | 5.71          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2  | 4        | 5.71          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3  | 4        | 5.71          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2  | 4        | 5.71          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3  | 4        | 5.71          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1  | 6        | 5.71          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2  | 6        | 5.71          |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1  | 14       | 5.71          |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1  | 14       | 5.71          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA   | 6        | 5.71          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1  | 15       | 5.71          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2  | 15       | 5.71          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3  | 15       | 5.71          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 11       | 5.71          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 11       | 5.71          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 13       | 5.71          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 13       | 5.71          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 13       | 5.71          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 13       | 5.71          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H    | 16       | 5.71          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H    | 16       | 5.71          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3  | 14       | 5.71          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 4        | 5.71          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 4        | 5.71          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 4        | 5.71          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 4        | 5.71          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 14       | 5.71          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 14       | 5.71          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 3        | 5.71          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA   | 18       | 5.71          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA   | 20       | 5.71          |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 1        | 5.71          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 4        | 5.71          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 4        | 5.71          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2  | 6        | 5.71          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3  | 6        | 5.71          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H    | 9        | 5.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 11       | 5.71          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 11       | 5.71          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 8        | 5.71          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 6        | 5.71          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 6        | 5.71          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 6        | 5.71          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 13       | 5.71          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 13       | 5.71          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 13       | 5.71          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 2        | 5.71          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 4        | 5.71          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 12       | 5.71          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 8        | 5.71          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 15       | 5.71          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 16       | 5.71          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 1        | 5.71          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H   | 11       | 5.71          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE1 | 12       | 5.71          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE2 | 12       | 5.71          |
| (1,2462) | 1:A:10:GLY:H    | 1:A:11:TRP:HH2 | 17       | 5.71          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 14       | 5.71          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 14       | 5.71          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1 | 14       | 5.71          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2 | 14       | 5.71          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 20       | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 7        | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 8        | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 14       | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 16       | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 18       | 5.71          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 19       | 5.71          |
| (1,1940) | 1:A:7:CYS:H     | 1:A:19:CYS:HA  | 5        | 5.71          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA2  | 9        | 5.71          |
| (1,1793) | 1:A:6:GLN:HE21  | 1:A:8:GLY:HA3  | 9        | 5.71          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA2 | 18       | 5.71          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA3 | 18       | 5.71          |
| (1,1715) | 1:A:6:GLN:HG2   | 1:A:21:SER:HG  | 8        | 5.71          |
| (1,1715) | 1:A:6:GLN:HG2   | 1:A:21:SER:HG  | 9        | 5.71          |
| (1,1715) | 1:A:6:GLN:HG2   | 1:A:21:SER:HG  | 20       | 5.71          |
| (1,1630) | 1:A:6:GLN:HB3   | 1:A:13:GLY:H   | 2        | 5.71          |
| (1,1630) | 1:A:6:GLN:HB3   | 1:A:13:GLY:H   | 10       | 5.71          |
| (1,1513) | 1:A:6:GLN:H     | 1:A:13:GLY:H   | 9        | 5.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H   | 9        | 5.71          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2 | 11       | 5.71          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 20       | 5.71          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 16       | 5.71          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3 | 16       | 5.71          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1 | 13       | 5.71          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1 | 8        | 5.71          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1 | 12       | 5.71          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 4        | 5.7           |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 4        | 5.7           |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H   | 14       | 5.7           |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 4        | 5.7           |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 4        | 5.7           |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 16       | 5.7           |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 16       | 5.7           |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 18       | 5.7           |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 18       | 5.7           |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 12       | 5.7           |
| (1,4757) | 1:A:28:SER:HB3 | 1:A:34:ALA:H   | 14       | 5.7           |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2 | 19       | 5.7           |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H   | 5        | 5.7           |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H   | 17       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H   | 18       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H   | 18       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H   | 19       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H   | 19       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H   | 20       | 5.7           |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H   | 20       | 5.7           |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H   | 3        | 5.7           |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H   | 4        | 5.7           |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H   | 17       | 5.7           |
| (1,4404) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HA  | 3        | 5.7           |
| (1,4404) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HA  | 3        | 5.7           |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 15       | 5.7           |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 15       | 5.7           |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE1 | 13       | 5.7           |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE2 | 13       | 5.7           |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE2 | 15       | 5.7           |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE3 | 15       | 5.7           |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2 | 5        | 5.7           |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB3 | 5        | 5.7           |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2 | 17       | 5.7           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 17       | 5.7           |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 9        | 5.7           |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 9        | 5.7           |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 14       | 5.7           |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 14       | 5.7           |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 2        | 5.7           |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 3        | 5.7           |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 4        | 5.7           |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 6        | 5.7           |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 4        | 5.7           |
| (1,3786) | 1:A:18:LEU:HD11 | 1:A:32:TYR:H   | 14       | 5.7           |
| (1,3786) | 1:A:18:LEU:HD12 | 1:A:32:TYR:H   | 14       | 5.7           |
| (1,3786) | 1:A:18:LEU:HD13 | 1:A:32:TYR:H   | 14       | 5.7           |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 8        | 5.7           |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 8        | 5.7           |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 8        | 5.7           |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 1        | 5.7           |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 8        | 5.7           |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 9        | 5.7           |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 20       | 5.7           |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 1        | 5.7           |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 11       | 5.7           |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 7        | 5.7           |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 18       | 5.7           |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 19       | 5.7           |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 1        | 5.7           |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 1        | 5.7           |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 8        | 5.7           |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 1        | 5.7           |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 15       | 5.7           |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 20       | 5.7           |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE1 | 7        | 5.7           |
| (1,3219) | 1:A:14:CYS:HB2  | 1:A:32:TYR:HE2 | 7        | 5.7           |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 15       | 5.7           |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 12       | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 2        | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 2        | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 11       | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 11       | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 15       | 5.7           |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 15       | 5.7           |
| (1,1940) | 1:A:7:CYS:H     | 1:A:19:CYS:HA  | 6        | 5.7           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H    | 1        | 5.7           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2   | 15       | 5.7           |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3   | 15       | 5.7           |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 7        | 5.7           |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 16       | 5.7           |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 18       | 5.7           |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG   | 19       | 5.7           |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 6        | 5.7           |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 17       | 5.7           |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1  | 6        | 5.7           |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1  | 10       | 5.7           |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 3        | 5.7           |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 3        | 5.7           |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H    | 2        | 5.7           |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 15       | 5.7           |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG   | 15       | 5.7           |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 4        | 5.7           |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 1        | 5.7           |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 19       | 5.7           |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 19       | 5.7           |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 16       | 5.7           |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 11       | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 11       | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 11       | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 11       | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 11       | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 11       | 5.69          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 2        | 5.69          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 3        | 5.69          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 3        | 5.69          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 3        | 5.69          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 3        | 5.69          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 1        | 5.69          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 1        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 6        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 6        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 6        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 6        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 6        | 5.69          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 6        | 5.69          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 14       | 5.69          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 14       | 5.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 12       | 5.69          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 4        | 5.69          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 9        | 5.69          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 12       | 5.69          |
| (1,4560) | 1:A:25:TYR:HD1  | 1:A:28:SER:H   | 2        | 5.69          |
| (1,4560) | 1:A:25:TYR:HD2  | 1:A:28:SER:H   | 2        | 5.69          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 19       | 5.69          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 19       | 5.69          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 6        | 5.69          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 8        | 5.69          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 16       | 5.69          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 12       | 5.69          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 12       | 5.69          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 8        | 5.69          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 8        | 5.69          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 1        | 5.69          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 17       | 5.69          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 17       | 5.69          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 20       | 5.69          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 20       | 5.69          |
| (1,4239) | 1:A:22:GLN:HB3  | 1:A:33:CYS:HA  | 3        | 5.69          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 2        | 5.69          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 7        | 5.69          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 9        | 5.69          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 13       | 5.69          |
| (1,4178) | 1:A:22:GLN:HG2  | 1:A:27:GLY:H   | 10       | 5.69          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 2        | 5.69          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 2        | 5.69          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 10       | 5.69          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 6        | 5.69          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 11       | 5.69          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 10       | 5.69          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 3        | 5.69          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 6        | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 1        | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 1        | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 8        | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 8        | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 16       | 5.69          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 16       | 5.69          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 5        | 5.69          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 7        | 5.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 13       | 5.69          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 18       | 5.69          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 2        | 5.69          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 3        | 5.69          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 3        | 5.69          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 11       | 5.69          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 11       | 5.69          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 11       | 5.69          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 15       | 5.69          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 15       | 5.69          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 15       | 5.69          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 13       | 5.69          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 2        | 5.69          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 3        | 5.69          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 4        | 5.69          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 15       | 5.69          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 15       | 5.69          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 11       | 5.69          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 18       | 5.69          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 19       | 5.69          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 13       | 5.69          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 12       | 5.69          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 12       | 5.69          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 8        | 5.69          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 9        | 5.69          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 12       | 5.69          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 1        | 5.69          |
| (1,3117) | 1:A:13:GLY:H    | 1:A:26:CYS:HA  | 7        | 5.69          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 3        | 5.69          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 3        | 5.69          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 6        | 5.69          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 6        | 5.69          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 13       | 5.69          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 13       | 5.69          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 13       | 5.69          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 13       | 5.69          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 8        | 5.69          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 9        | 5.69          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 13       | 5.69          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB2 | 14       | 5.69          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB3 | 14       | 5.69          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2 | 17       | 5.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 2        | 5.69          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 3        | 5.69          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 10       | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 7        | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 8        | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 16       | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 18       | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 19       | 5.69          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 20       | 5.69          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 1        | 5.69          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 1        | 5.69          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2  | 17       | 5.69          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3  | 17       | 5.69          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H    | 5        | 5.69          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 2        | 5.69          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 5        | 5.69          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 9        | 5.69          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 11       | 5.69          |
| (1,1442) | 1:A:5:GLY:H    | 1:A:27:GLY:H    | 7        | 5.69          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1  | 3        | 5.69          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H    | 5        | 5.69          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 9        | 5.69          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2  | 12       | 5.69          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 7        | 5.69          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 7        | 5.69          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 15       | 5.68          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 15       | 5.68          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 15       | 5.68          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 15       | 5.68          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 15       | 5.68          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 15       | 5.68          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 11       | 5.68          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 1        | 5.68          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 8        | 5.68          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 19       | 5.68          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H    | 20       | 5.68          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H    | 20       | 5.68          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 1        | 5.68          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 1        | 5.68          |
| (1,4560) | 1:A:25:TYR:HD1 | 1:A:28:SER:H    | 10       | 5.68          |
| (1,4560) | 1:A:25:TYR:HD2 | 1:A:28:SER:H    | 10       | 5.68          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG2  | 13       | 5.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 13       | 5.68          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 1        | 5.68          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 9        | 5.68          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3 | 12       | 5.68          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 4        | 5.68          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 4        | 5.68          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 10       | 5.68          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 10       | 5.68          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 5        | 5.68          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 5        | 5.68          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 5        | 5.68          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 2        | 5.68          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB2 | 15       | 5.68          |
| (1,4316) | 1:A:22:GLN:HE22 | 1:A:30:PRO:HB3 | 15       | 5.68          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 2        | 5.68          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 2        | 5.68          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 1        | 5.68          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 19       | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 5        | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 5        | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 7        | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 7        | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 13       | 5.68          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 13       | 5.68          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 12       | 5.68          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 15       | 5.68          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 16       | 5.68          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 19       | 5.68          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 4        | 5.68          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 4        | 5.68          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 4        | 5.68          |
| (1,3718) | 1:A:18:LEU:HB3  | 1:A:29:GLY:HA3 | 10       | 5.68          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 18       | 5.68          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 18       | 5.68          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 19       | 5.68          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 19       | 5.68          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA2 | 14       | 5.68          |
| (1,3695) | 1:A:18:LEU:HB2  | 1:A:29:GLY:HA3 | 14       | 5.68          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 9        | 5.68          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 19       | 5.68          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 19       | 5.68          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 7        | 5.68          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 17       | 5.68          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2 | 8        | 5.68          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3 | 8        | 5.68          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA2 | 17       | 5.68          |
| (1,3111) | 1:A:13:GLY:H   | 1:A:24:GLY:HA3 | 17       | 5.68          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 2        | 5.68          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 2        | 5.68          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 4        | 5.68          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 4        | 5.68          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 20       | 5.68          |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2 | 11       | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 2        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 3        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 4        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 5        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 6        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 9        | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 10       | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 14       | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 19       | 5.68          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 20       | 5.68          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 9        | 5.68          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 16       | 5.68          |
| (1,1939) | 1:A:7:CYS:H    | 1:A:19:CYS:H   | 19       | 5.68          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 9        | 5.68          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 12       | 5.68          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 4        | 5.68          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 4        | 5.68          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 20       | 5.68          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 1        | 5.68          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 3        | 5.68          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 12       | 5.68          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 4        | 5.68          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 5        | 5.68          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 14       | 5.68          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 14       | 5.68          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA  | 15       | 5.68          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 11       | 5.68          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 3        | 5.67          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H   | 6        | 5.67          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 10       | 5.67          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 13       | 5.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3  | 13       | 5.67          |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA   | 3        | 5.67          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3  | 11       | 5.67          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2  | 5        | 5.67          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3  | 2        | 5.67          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3  | 7        | 5.67          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2  | 3        | 5.67          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2  | 12       | 5.67          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2  | 14       | 5.67          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3  | 14       | 5.67          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H    | 11       | 5.67          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3  | 18       | 5.67          |
| (1,4467) | 1:A:24:GLY:HA2  | 1:A:27:GLY:HA3  | 19       | 5.67          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA   | 8        | 5.67          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 8        | 5.67          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H    | 1        | 5.67          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3  | 1        | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1  | 13       | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2  | 13       | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3  | 13       | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1  | 15       | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2  | 15       | 5.67          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3  | 15       | 5.67          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 13       | 5.67          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 13       | 5.67          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H    | 17       | 5.67          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 16       | 5.67          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 18       | 5.67          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 20       | 5.67          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1  | 15       | 5.67          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2  | 15       | 5.67          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 14       | 5.67          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H    | 9        | 5.67          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H    | 20       | 5.67          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H    | 12       | 5.67          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1  | 4        | 5.67          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2  | 4        | 5.67          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1  | 6        | 5.67          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2  | 6        | 5.67          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H    | 10       | 5.67          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H    | 10       | 5.67          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H    | 10       | 5.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 12       | 5.67          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 12       | 5.67          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 12       | 5.67          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 6        | 5.67          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 15       | 5.67          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 15       | 5.67          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 15       | 5.67          |
| (1,3678) | 1:A:18:LEU:HB2  | 1:A:21:SER:HG   | 14       | 5.67          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H    | 16       | 5.67          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3  | 13       | 5.67          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2  | 16       | 5.67          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2  | 16       | 5.67          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 17       | 5.67          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1  | 13       | 5.67          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2  | 13       | 5.67          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2  | 20       | 5.67          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2  | 13       | 5.67          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3  | 13       | 5.67          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG2  | 20       | 5.67          |
| (1,2987) | 1:A:12:GLY:H    | 1:A:15:ARG:HG3  | 20       | 5.67          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2  | 1        | 5.67          |
| (1,2143) | 1:A:9:PRO:HA    | 1:A:11:TRP:HZ2  | 15       | 5.67          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1  | 18       | 5.67          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2  | 18       | 5.67          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD11 | 17       | 5.67          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD12 | 17       | 5.67          |
| (1,2039) | 1:A:8:GLY:H     | 1:A:18:LEU:HD13 | 17       | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 7        | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 8        | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 12       | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 13       | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 16       | 5.67          |
| (1,2028) | 1:A:8:GLY:H     | 1:A:11:TRP:HZ2  | 18       | 5.67          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1  | 14       | 5.67          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2  | 14       | 5.67          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1  | 14       | 5.67          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2  | 14       | 5.67          |
| (1,1940) | 1:A:7:CYS:H     | 1:A:19:CYS:HA   | 4        | 5.67          |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H    | 18       | 5.67          |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H    | 20       | 5.67          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB2  | 9        | 5.67          |
| (1,1835) | 1:A:6:GLN:HE21  | 1:A:26:CYS:HB3  | 9        | 5.67          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 11       | 5.67          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 11       | 5.67          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 13       | 5.67          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 14       | 5.67          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 14       | 5.67          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 7        | 5.67          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 7        | 5.67          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 1        | 5.67          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 4        | 5.67          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 6        | 5.67          |
| (1,1415) | 1:A:5:GLY:H    | 1:A:15:ARG:HE  | 1        | 5.67          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 14       | 5.67          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 1        | 5.67          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3 | 17       | 5.66          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2 | 3        | 5.66          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 1        | 5.66          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 5        | 5.66          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 11       | 5.66          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 13       | 5.66          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 13       | 5.66          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 15       | 5.66          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 15       | 5.66          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2 | 9        | 5.66          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1 | 12       | 5.66          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 1        | 5.66          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 1        | 5.66          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2 | 6        | 5.66          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H   | 3        | 5.66          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H   | 11       | 5.66          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 12       | 5.66          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 13       | 5.66          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 15       | 5.66          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA  | 10       | 5.66          |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H   | 2        | 5.66          |
| (1,4467) | 1:A:24:GLY:HA2 | 1:A:27:GLY:HA3 | 7        | 5.66          |
| (1,4467) | 1:A:24:GLY:HA2 | 1:A:27:GLY:HA3 | 20       | 5.66          |
| (1,4428) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB2 | 8        | 5.66          |
| (1,4428) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB2 | 8        | 5.66          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2 | 12       | 5.66          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2 | 12       | 5.66          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3 | 12       | 5.66          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3 | 12       | 5.66          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 6        | 5.66          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 6        | 5.66          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 6        | 5.66          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 6        | 5.66          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2  | 2        | 5.66          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2  | 2        | 5.66          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 16       | 5.66          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 15       | 5.66          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA   | 4        | 5.66          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 4        | 5.66          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 4        | 5.66          |
| (1,4003) | 1:A:20:CYS:HB3  | 1:A:32:TYR:H    | 19       | 5.66          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1  | 15       | 5.66          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2  | 15       | 5.66          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2  | 18       | 5.66          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H    | 10       | 5.66          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H    | 14       | 5.66          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1  | 18       | 5.66          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2  | 18       | 5.66          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1  | 20       | 5.66          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2  | 20       | 5.66          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H    | 17       | 5.66          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 2        | 5.66          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 2        | 5.66          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 2        | 5.66          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3  | 10       | 5.66          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3  | 10       | 5.66          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3  | 10       | 5.66          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 12       | 5.66          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 7        | 5.66          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 7        | 5.66          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2  | 20       | 5.66          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3  | 20       | 5.66          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1  | 1        | 5.66          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2  | 1        | 5.66          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1  | 12       | 5.66          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2  | 12       | 5.66          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1  | 16       | 5.66          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2  | 16       | 5.66          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2  | 5        | 5.66          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3  | 5        | 5.66          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2  | 1        | 5.66          |

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| Key      | Atom-1        | Atom-2         | Model ID | Violation (Å) |
|----------|---------------|----------------|----------|---------------|
| (1,2592) | 1:A:11:TRP:H  | 1:A:20:CYS:HB3 | 1        | 5.66          |
| (1,2592) | 1:A:11:TRP:H  | 1:A:20:CYS:HB2 | 15       | 5.66          |
| (1,2592) | 1:A:11:TRP:H  | 1:A:20:CYS:HB3 | 15       | 5.66          |
| (1,2462) | 1:A:10:GLY:H  | 1:A:11:TRP:HH2 | 13       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HE1 | 10       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HE2 | 10       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HE1 | 10       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HE2 | 10       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HE1 | 15       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HE2 | 15       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HE1 | 15       | 5.66          |
| (1,2443) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HE2 | 15       | 5.66          |
| (1,2442) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HD1 | 16       | 5.66          |
| (1,2442) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HD2 | 16       | 5.66          |
| (1,2442) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HD1 | 16       | 5.66          |
| (1,2442) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HD2 | 16       | 5.66          |
| (1,2396) | 1:A:9:PRO:HG3 | 1:A:24:GLY:HA2 | 12       | 5.66          |
| (1,2331) | 1:A:9:PRO:HG2 | 1:A:24:GLY:HA2 | 8        | 5.66          |
| (1,2331) | 1:A:9:PRO:HG2 | 1:A:24:GLY:HA2 | 9        | 5.66          |
| (1,2302) | 1:A:9:PRO:HG2 | 1:A:12:GLY:HA2 | 13       | 5.66          |
| (1,2112) | 1:A:8:GLY:HA3 | 1:A:21:SER:HG  | 17       | 5.66          |
| (1,2028) | 1:A:8:GLY:H   | 1:A:11:TRP:HZ2 | 1        | 5.66          |
| (1,2028) | 1:A:8:GLY:H   | 1:A:11:TRP:HZ2 | 11       | 5.66          |
| (1,2028) | 1:A:8:GLY:H   | 1:A:11:TRP:HZ2 | 15       | 5.66          |
| (1,1939) | 1:A:7:CYS:H   | 1:A:19:CYS:H   | 11       | 5.66          |
| (1,1926) | 1:A:7:CYS:H   | 1:A:11:TRP:HZ3 | 13       | 5.66          |
| (1,1922) | 1:A:7:CYS:H   | 1:A:10:GLY:HA3 | 1        | 5.66          |
| (1,1922) | 1:A:7:CYS:H   | 1:A:10:GLY:HA3 | 11       | 5.66          |
| (1,1653) | 1:A:6:GLN:HB3 | 1:A:23:TYR:HB3 | 5        | 5.66          |
| (1,1653) | 1:A:6:GLN:HB3 | 1:A:23:TYR:HB3 | 14       | 5.66          |
| (1,1580) | 1:A:6:GLN:HA  | 1:A:32:TYR:HD1 | 14       | 5.66          |
| (1,1580) | 1:A:6:GLN:HA  | 1:A:32:TYR:HD2 | 14       | 5.66          |
| (1,1516) | 1:A:6:GLN:H   | 1:A:18:LEU:HB3 | 11       | 5.66          |
| (1,1516) | 1:A:6:GLN:H   | 1:A:18:LEU:HB3 | 15       | 5.66          |
| (1,1484) | 1:A:5:GLY:HA3 | 1:A:20:CYS:H   | 8        | 5.66          |
| (1,1476) | 1:A:5:GLY:HA3 | 1:A:15:ARG:HB2 | 18       | 5.66          |
| (1,1476) | 1:A:5:GLY:HA3 | 1:A:15:ARG:HB3 | 18       | 5.66          |
| (1,1476) | 1:A:5:GLY:HA3 | 1:A:15:ARG:HB2 | 19       | 5.66          |
| (1,1476) | 1:A:5:GLY:HA3 | 1:A:15:ARG:HB3 | 19       | 5.66          |
| (1,1467) | 1:A:5:GLY:HA3 | 1:A:8:GLY:H    | 8        | 5.66          |
| (1,1467) | 1:A:5:GLY:HA3 | 1:A:8:GLY:H    | 15       | 5.66          |
| (1,1412) | 1:A:5:GLY:H   | 1:A:14:CYS:HB2 | 5        | 5.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB2 | 4        | 5.66          |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB3 | 4        | 5.66          |
| (1,1146) | 1:A:4:ASN:HB2   | 1:A:21:SER:HG  | 20       | 5.66          |
| (1,1003) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HE1 | 5        | 5.66          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 6        | 5.65          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 13       | 5.65          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE1 | 10       | 5.65          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE2 | 10       | 5.65          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 17       | 5.65          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 17       | 5.65          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2 | 20       | 5.65          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3 | 20       | 5.65          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 6        | 5.65          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 5        | 5.65          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 13       | 5.65          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 13       | 5.65          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 1        | 5.65          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 4        | 5.65          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 8        | 5.65          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 14       | 5.65          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 5        | 5.65          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 14       | 5.65          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 14       | 5.65          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG2 | 20       | 5.65          |
| (1,4452) | 1:A:24:GLY:H    | 1:A:31:LYS:HG3 | 20       | 5.65          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 17       | 5.65          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 17       | 5.65          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 17       | 5.65          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 17       | 5.65          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 14       | 5.65          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 14       | 5.65          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 1        | 5.65          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 9        | 5.65          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 9        | 5.65          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 17       | 5.65          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 13       | 5.65          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 2        | 5.65          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 5        | 5.65          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 5        | 5.65          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 20       | 5.65          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 3        | 5.65          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 18       | 5.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 20       | 5.65          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 5        | 5.65          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 12       | 5.65          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 3        | 5.65          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 3        | 5.65          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 19       | 5.65          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 19       | 5.65          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 1        | 5.65          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 1        | 5.65          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 1        | 5.65          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 13       | 5.65          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 13       | 5.65          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 13       | 5.65          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 14       | 5.65          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 14       | 5.65          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 7        | 5.65          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 8        | 5.65          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 11       | 5.65          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 18       | 5.65          |
| (1,3640) | 1:A:17:GLY:HA3  | 1:A:33:CYS:H   | 19       | 5.65          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 20       | 5.65          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 20       | 5.65          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 15       | 5.65          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 15       | 5.65          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 13       | 5.65          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 18       | 5.65          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD1 | 11       | 5.65          |
| (1,3277) | 1:A:15:ARG:H    | 1:A:32:TYR:HD2 | 11       | 5.65          |
| (1,3187) | 1:A:14:CYS:H    | 1:A:27:GLY:HA2 | 17       | 5.65          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 12       | 5.65          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 11       | 5.65          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 11       | 5.65          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 2        | 5.65          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 2        | 5.65          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 2        | 5.65          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 2        | 5.65          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 11       | 5.65          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 11       | 5.65          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 11       | 5.65          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 11       | 5.65          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 9        | 5.65          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 9        | 5.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1 | 9        | 5.65          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2 | 9        | 5.65          |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 1        | 5.65          |
| (1,2124) | 1:A:8:GLY:HA3   | 1:A:26:CYS:H   | 12       | 5.65          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 19       | 5.65          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE2 | 19       | 5.65          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 4        | 5.65          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 4        | 5.65          |
| (1,2020) | 1:A:7:CYS:HB2   | 1:A:35:HIS:HE1 | 1        | 5.65          |
| (1,2020) | 1:A:7:CYS:HB3   | 1:A:35:HIS:HE1 | 1        | 5.65          |
| (1,1939) | 1:A:7:CYS:H     | 1:A:19:CYS:H   | 7        | 5.65          |
| (1,1922) | 1:A:7:CYS:H     | 1:A:10:GLY:HA3 | 15       | 5.65          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3 | 12       | 5.65          |
| (1,1412) | 1:A:5:GLY:H     | 1:A:14:CYS:HB2 | 2        | 5.65          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA  | 1        | 5.65          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA  | 10       | 5.65          |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA  | 3        | 5.64          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA  | 3        | 5.64          |
| (1,839)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HB3 | 20       | 5.64          |
| (1,599)  | 1:A:2:GLY:H     | 1:A:4:ASN:HD22 | 2        | 5.64          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 17       | 5.64          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 17       | 5.64          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1 | 16       | 5.64          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2 | 15       | 5.64          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE1 | 19       | 5.64          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE2 | 19       | 5.64          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 5        | 5.64          |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H   | 1        | 5.64          |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H   | 9        | 5.64          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 18       | 5.64          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 18       | 5.64          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 2        | 5.64          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 7        | 5.64          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 11       | 5.64          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 5        | 5.64          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 5        | 5.64          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 10       | 5.64          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 20       | 5.64          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H   | 13       | 5.64          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 19       | 5.64          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 19       | 5.64          |
| (1,4165) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HB3 | 14       | 5.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 3        | 5.64          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 6        | 5.64          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 2        | 5.64          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 2        | 5.64          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 17       | 5.64          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 19       | 5.64          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 4        | 5.64          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 10       | 5.64          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 10       | 5.64          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 8        | 5.64          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 9        | 5.64          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 9        | 5.64          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 9        | 5.64          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA2 | 9        | 5.64          |
| (1,3712) | 1:A:18:LEU:HB3  | 1:A:24:GLY:HA3 | 9        | 5.64          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 16       | 5.64          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 1        | 5.64          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 1        | 5.64          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 1        | 5.64          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 19       | 5.64          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 19       | 5.64          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 20       | 5.64          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 20       | 5.64          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 20       | 5.64          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 8        | 5.64          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 11       | 5.64          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB2 | 10       | 5.64          |
| (1,3016) | 1:A:12:GLY:H    | 1:A:26:CYS:HB3 | 10       | 5.64          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 13       | 5.64          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 13       | 5.64          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2 | 7        | 5.64          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2 | 9        | 5.64          |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 11       | 5.64          |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 15       | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 2        | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 3        | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 4        | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 5        | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 6        | 5.64          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 10       | 5.64          |
| (1,2124) | 1:A:8:GLY:HA3   | 1:A:26:CYS:H   | 15       | 5.64          |
| (1,2123) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HE1 | 20       | 5.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2 | 20       | 5.64          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE1 | 17       | 5.64          |
| (1,2058) | 1:A:8:GLY:H    | 1:A:25:TYR:HE2 | 17       | 5.64          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA2  | 17       | 5.64          |
| (1,1793) | 1:A:6:GLN:HE21 | 1:A:8:GLY:HA3  | 17       | 5.64          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 10       | 5.64          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 12       | 5.64          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 12       | 5.64          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 11       | 5.64          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 13       | 5.64          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 13       | 5.64          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 18       | 5.64          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H    | 20       | 5.64          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 17       | 5.64          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 17       | 5.64          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 11       | 5.64          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 11       | 5.64          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 13       | 5.64          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 3        | 5.64          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 12       | 5.64          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H   | 5        | 5.63          |
| (1,563)  | 1:A:1:SER:HB2  | 1:A:21:SER:HG  | 5        | 5.63          |
| (1,563)  | 1:A:1:SER:HB3  | 1:A:21:SER:HG  | 5        | 5.63          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 5        | 5.63          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 5        | 5.63          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 14       | 5.63          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 14       | 5.63          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 6        | 5.63          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1 | 5        | 5.63          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2 | 5        | 5.63          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1 | 6        | 5.63          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2 | 6        | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 16       | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 16       | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 18       | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 18       | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 20       | 5.63          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 20       | 5.63          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA  | 17       | 5.63          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H   | 12       | 5.63          |
| (1,4691) | 1:A:27:GLY:H   | 1:A:35:HIS:H   | 20       | 5.63          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 3        | 5.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 6        | 5.63          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 9        | 5.63          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 17       | 5.63          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 7        | 5.63          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 7        | 5.63          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2 | 18       | 5.63          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3 | 18       | 5.63          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 5        | 5.63          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 16       | 5.63          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 6        | 5.63          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 6        | 5.63          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 19       | 5.63          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 19       | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 2        | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 2        | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 2        | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB1 | 4        | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB2 | 4        | 5.63          |
| (1,4098) | 1:A:21:SER:HG   | 1:A:34:ALA:HB3 | 4        | 5.63          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 12       | 5.63          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 1        | 5.63          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 11       | 5.63          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 2        | 5.63          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 11       | 5.63          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 6        | 5.63          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 6        | 5.63          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD1 | 2        | 5.63          |
| (1,3925) | 1:A:20:CYS:H    | 1:A:25:TYR:HD2 | 2        | 5.63          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 12       | 5.63          |
| (1,3871) | 1:A:19:CYS:HB2  | 1:A:23:TYR:H   | 14       | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 2        | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 2        | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 5        | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 5        | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 10       | 5.63          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 10       | 5.63          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA  | 4        | 5.63          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA  | 4        | 5.63          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA  | 4        | 5.63          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 12       | 5.63          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 20       | 5.63          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2 | 11       | 5.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3341) | 1:A:15:ARG:HB3 | 1:A:26:CYS:HA  | 11       | 5.63          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1 | 1        | 5.63          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2 | 1        | 5.63          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2 | 9        | 5.63          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3 | 9        | 5.63          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2 | 7        | 5.63          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 8        | 5.63          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 8        | 5.63          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 7        | 5.63          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 7        | 5.63          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 7        | 5.63          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 7        | 5.63          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 18       | 5.63          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 19       | 5.63          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 20       | 5.63          |
| (1,2143) | 1:A:9:PRO:HA   | 1:A:11:TRP:HZ2 | 13       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 7        | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 8        | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 9        | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 12       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 14       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 16       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 18       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 19       | 5.63          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 20       | 5.63          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 2        | 5.63          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 10       | 5.63          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 3        | 5.63          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 3        | 5.63          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 6        | 5.63          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 6        | 5.63          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 14       | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 8        | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 8        | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 18       | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 18       | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 19       | 5.63          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 19       | 5.63          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 1        | 5.63          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 11       | 5.63          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 1        | 5.63          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 9        | 5.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 9        | 5.63          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 17       | 5.63          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 17       | 5.63          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 7        | 5.63          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 16       | 5.63          |
| (1,1467) | 1:A:5:GLY:HA3  | 1:A:8:GLY:H     | 19       | 5.63          |
| (1,1412) | 1:A:5:GLY:H    | 1:A:14:CYS:HB2  | 10       | 5.63          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H    | 11       | 5.63          |
| (1,1194) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HH2  | 17       | 5.63          |
| (1,1061) | 1:A:4:ASN:H    | 1:A:11:TRP:HE1  | 9        | 5.63          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 9        | 5.63          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 1        | 5.62          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 1        | 5.62          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 6        | 5.62          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 7        | 5.62          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 12       | 5.62          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 13       | 5.62          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 4        | 5.62          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 4        | 5.62          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 11       | 5.62          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 3        | 5.62          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 3        | 5.62          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 9        | 5.62          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 9        | 5.62          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 14       | 5.62          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 17       | 5.62          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 3        | 5.62          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 3        | 5.62          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 17       | 5.62          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 7        | 5.62          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 8        | 5.62          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 14       | 5.62          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H   | 15       | 5.62          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD2 | 20       | 5.62          |
| (1,4683) | 1:A:27:GLY:H    | 1:A:31:LYS:HD3 | 20       | 5.62          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 5        | 5.62          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 3        | 5.62          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 14       | 5.62          |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 14       | 5.62          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 13       | 5.62          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 19       | 5.62          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 19       | 5.62          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H   | 3        | 5.62          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 4        | 5.62          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA  | 11       | 5.62          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 5        | 5.62          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 5        | 5.62          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 1        | 5.62          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 14       | 5.62          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 4        | 5.62          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 4        | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 7        | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 7        | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 9        | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 9        | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 17       | 5.62          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 17       | 5.62          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 19       | 5.62          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 10       | 5.62          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 4        | 5.62          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 7        | 5.62          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 7        | 5.62          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 7        | 5.62          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 5        | 5.62          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 16       | 5.62          |
| (1,3698) | 1:A:18:LEU:HB2  | 1:A:33:CYS:H   | 14       | 5.62          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 10       | 5.62          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 17       | 5.62          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 18       | 5.62          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 18       | 5.62          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 19       | 5.62          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 19       | 5.62          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 18       | 5.62          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 18       | 5.62          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 18       | 5.62          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 18       | 5.62          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 8        | 5.62          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 8        | 5.62          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 8        | 5.62          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 8        | 5.62          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 16       | 5.62          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 12       | 5.62          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 15       | 5.62          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 12       | 5.62          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 14       | 5.62          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 11       | 5.62          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 5        | 5.62          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1 | 1        | 5.62          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2 | 1        | 5.62          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 7        | 5.62          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 7        | 5.62          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 16       | 5.62          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 16       | 5.62          |
| (1,1715) | 1:A:6:GLN:HG2  | 1:A:21:SER:HG  | 15       | 5.62          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 2        | 5.62          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1 | 5        | 5.62          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2 | 5        | 5.62          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 4        | 5.62          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H   | 18       | 5.62          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 17       | 5.62          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 12       | 5.62          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 12       | 5.62          |
| (1,1146) | 1:A:4:ASN:HB2  | 1:A:21:SER:HG  | 4        | 5.62          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 13       | 5.62          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 16       | 5.62          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 15       | 5.61          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 19       | 5.61          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2 | 14       | 5.61          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 16       | 5.61          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 18       | 5.61          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 11       | 5.61          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 11       | 5.61          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 3        | 5.61          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 3        | 5.61          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 13       | 5.61          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 13       | 5.61          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 6        | 5.61          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 6        | 5.61          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2  | 11       | 5.61          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3  | 11       | 5.61          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3  | 8        | 5.61          |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 12       | 5.61          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA   | 17       | 5.61          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 17       | 5.61          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 17       | 5.61          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 5        | 5.61          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 5        | 5.61          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 5        | 5.61          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2  | 7        | 5.61          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3  | 7        | 5.61          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 16       | 5.61          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 2        | 5.61          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 4        | 5.61          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 13       | 5.61          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA   | 6        | 5.61          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG2  | 9        | 5.61          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG3  | 9        | 5.61          |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H    | 10       | 5.61          |
| (1,4404) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HA   | 17       | 5.61          |
| (1,4404) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HA   | 17       | 5.61          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2  | 5        | 5.61          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3  | 5        | 5.61          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H    | 6        | 5.61          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H    | 9        | 5.61          |
| (1,4238) | 1:A:22:GLN:HB3 | 1:A:33:CYS:H    | 15       | 5.61          |
| (1,4203) | 1:A:22:GLN:HB2 | 1:A:33:CYS:HA   | 5        | 5.61          |
| (1,4200) | 1:A:22:GLN:HG2 | 1:A:33:CYS:H    | 16       | 5.61          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1  | 9        | 5.61          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2  | 9        | 5.61          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H    | 10       | 5.61          |
| (1,4094) | 1:A:21:SER:HG  | 1:A:33:CYS:H    | 14       | 5.61          |
| (1,4041) | 1:A:21:SER:H   | 1:A:34:ALA:H    | 12       | 5.61          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 12       | 5.61          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 12       | 5.61          |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE21 | 17       | 5.61          |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE22 | 17       | 5.61          |
| (1,3974) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HE1  | 8        | 5.61          |
| (1,3974) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HE2  | 8        | 5.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 20       | 5.61          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 20       | 5.61          |
| (1,3890) | 1:A:19:CYS:HB3 | 1:A:23:TYR:H   | 2        | 5.61          |
| (1,3890) | 1:A:19:CYS:HB3 | 1:A:23:TYR:H   | 3        | 5.61          |
| (1,3890) | 1:A:19:CYS:HB3 | 1:A:23:TYR:H   | 6        | 5.61          |
| (1,3890) | 1:A:19:CYS:HB3 | 1:A:23:TYR:H   | 8        | 5.61          |
| (1,3721) | 1:A:18:LEU:HB3 | 1:A:32:TYR:H   | 19       | 5.61          |
| (1,3721) | 1:A:18:LEU:HB3 | 1:A:32:TYR:H   | 20       | 5.61          |
| (1,3660) | 1:A:18:LEU:H   | 1:A:33:CYS:H   | 5        | 5.61          |
| (1,3660) | 1:A:18:LEU:H   | 1:A:33:CYS:H   | 6        | 5.61          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2 | 13       | 5.61          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3 | 13       | 5.61          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2 | 15       | 5.61          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3 | 15       | 5.61          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG  | 9        | 5.61          |
| (1,3292) | 1:A:15:ARG:HB2 | 1:A:20:CYS:H   | 7        | 5.61          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 14       | 5.61          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2 | 18       | 5.61          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2 | 19       | 5.61          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 18       | 5.61          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 18       | 5.61          |
| (1,2659) | 1:A:11:TRP:HB2 | 1:A:25:TYR:H   | 17       | 5.61          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2 | 8        | 5.61          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 7        | 5.61          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 8        | 5.61          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 16       | 5.61          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 18       | 5.61          |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3 | 1        | 5.61          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 7        | 5.61          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 15       | 5.61          |
| (1,2028) | 1:A:8:GLY:H    | 1:A:11:TRP:HZ2 | 17       | 5.61          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 17       | 5.61          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 17       | 5.61          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 5        | 5.61          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 6        | 5.61          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 18       | 5.61          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 19       | 5.61          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 20       | 5.61          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 13       | 5.61          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB2 | 20       | 5.61          |
| (1,1835) | 1:A:6:GLN:HE21 | 1:A:26:CYS:HB3 | 20       | 5.61          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 17       | 5.61          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 1        | 5.61          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H    | 16       | 5.61          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 12       | 5.61          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 12       | 5.61          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H    | 12       | 5.61          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 14       | 5.61          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 14       | 5.61          |
| (1,1060) | 1:A:4:ASN:H    | 1:A:11:TRP:HD1  | 13       | 5.61          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1  | 12       | 5.61          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2  | 12       | 5.61          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 7        | 5.61          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 12       | 5.6           |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 12       | 5.6           |
| (1,647)  | 1:A:2:GLY:H    | 1:A:26:CYS:HA   | 17       | 5.6           |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H    | 10       | 5.6           |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H    | 10       | 5.6           |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2  | 4        | 5.6           |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 4        | 5.6           |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 1        | 5.6           |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 1        | 5.6           |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 11       | 5.6           |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 11       | 5.6           |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3  | 10       | 5.6           |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG2  | 4        | 5.6           |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG3  | 4        | 5.6           |
| (1,4427) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HA   | 8        | 5.6           |
| (1,4427) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HA   | 8        | 5.6           |
| (1,4408) | 1:A:23:TYR:HD1 | 1:A:32:TYR:H    | 3        | 5.6           |
| (1,4408) | 1:A:23:TYR:HD2 | 1:A:32:TYR:H    | 3        | 5.6           |
| (1,4395) | 1:A:23:TYR:HD1 | 1:A:27:GLY:H    | 6        | 5.6           |
| (1,4395) | 1:A:23:TYR:HD2 | 1:A:27:GLY:H    | 6        | 5.6           |
| (1,4395) | 1:A:23:TYR:HD1 | 1:A:27:GLY:H    | 19       | 5.6           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 19       | 5.6           |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 18       | 5.6           |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 18       | 5.6           |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 11       | 5.6           |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 11       | 5.6           |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 18       | 5.6           |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 3        | 5.6           |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 6        | 5.6           |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 14       | 5.6           |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 12       | 5.6           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 1        | 5.6           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 1        | 5.6           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 8        | 5.6           |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 8        | 5.6           |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 8        | 5.6           |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 17       | 5.6           |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 5        | 5.6           |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 13       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 16       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 16       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 16       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 17       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 20       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 20       | 5.6           |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 20       | 5.6           |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 2        | 5.6           |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 4        | 5.6           |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 18       | 5.6           |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 1        | 5.6           |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 11       | 5.6           |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 11       | 5.6           |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 7        | 5.6           |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 7        | 5.6           |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 7        | 5.6           |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 15       | 5.6           |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 15       | 5.6           |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 14       | 5.6           |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 19       | 5.6           |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 19       | 5.6           |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 19       | 5.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 19       | 5.6           |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 19       | 5.6           |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 20       | 5.6           |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 12       | 5.6           |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 12       | 5.6           |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 16       | 5.6           |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 18       | 5.6           |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 19       | 5.6           |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 20       | 5.6           |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 14       | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 7        | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 8        | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 9        | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 10       | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 12       | 5.6           |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3 | 16       | 5.6           |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 3        | 5.6           |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 3        | 5.6           |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 4        | 5.6           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 7        | 5.6           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 7        | 5.6           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 8        | 5.6           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 8        | 5.6           |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H   | 19       | 5.6           |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H   | 20       | 5.6           |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 13       | 5.6           |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA  | 6        | 5.6           |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 9        | 5.6           |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 19       | 5.6           |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1 | 9        | 5.6           |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1 | 20       | 5.6           |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 7        | 5.59          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3 | 13       | 5.59          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 12       | 5.59          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 12       | 5.59          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 8        | 5.59          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 8        | 5.59          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 8        | 5.59          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 8        | 5.59          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 1        | 5.59          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 1        | 5.59          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 8        | 5.59          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2  | 8        | 5.59          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2  | 1        | 5.59          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2  | 1        | 5.59          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 2        | 5.59          |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3  | 18       | 5.59          |
| (1,4748) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB2  | 10       | 5.59          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2  | 3        | 5.59          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3  | 3        | 5.59          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 5        | 5.59          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 5        | 5.59          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 5        | 5.59          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 5        | 5.59          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 5        | 5.59          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 5        | 5.59          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H    | 15       | 5.59          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 4        | 5.59          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 4        | 5.59          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H    | 2        | 5.59          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA   | 14       | 5.59          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 12       | 5.59          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 3        | 5.59          |
| (1,4203) | 1:A:22:GLN:HB2  | 1:A:33:CYS:HA   | 6        | 5.59          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1  | 8        | 5.59          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2  | 8        | 5.59          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 17       | 5.59          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 12       | 5.59          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 12       | 5.59          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3  | 8        | 5.59          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1  | 11       | 5.59          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 20       | 5.59          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 20       | 5.59          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H    | 4        | 5.59          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1  | 12       | 5.59          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2  | 12       | 5.59          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1  | 15       | 5.59          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2  | 15       | 5.59          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 10       | 5.59          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 15       | 5.59          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 18       | 5.59          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 18       | 5.59          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 18       | 5.59          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 19       | 5.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 19       | 5.59          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 19       | 5.59          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 13       | 5.59          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 18       | 5.59          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 19       | 5.59          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 12       | 5.59          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 18       | 5.59          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 19       | 5.59          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 11       | 5.59          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 11       | 5.59          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 7        | 5.59          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 7        | 5.59          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB2 | 20       | 5.59          |
| (1,3191) | 1:A:14:CYS:H    | 1:A:33:CYS:HB3 | 20       | 5.59          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 15       | 5.59          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE1 | 1        | 5.59          |
| (1,2443) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HE2 | 1        | 5.59          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE1 | 1        | 5.59          |
| (1,2443) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HE2 | 1        | 5.59          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2 | 11       | 5.59          |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 9        | 5.59          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 15       | 5.59          |
| (1,2140) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE3 | 17       | 5.59          |
| (1,2124) | 1:A:8:GLY:HA3   | 1:A:26:CYS:H   | 6        | 5.59          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H   | 8        | 5.59          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H   | 9        | 5.59          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H   | 13       | 5.59          |
| (1,1948) | 1:A:7:CYS:H     | 1:A:22:GLN:HA  | 1        | 5.59          |
| (1,1926) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ3 | 2        | 5.59          |
| (1,1926) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ3 | 3        | 5.59          |
| (1,1926) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ3 | 4        | 5.59          |
| (1,1926) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ3 | 15       | 5.59          |
| (1,1922) | 1:A:7:CYS:H     | 1:A:10:GLY:HA3 | 3        | 5.59          |
| (1,1922) | 1:A:7:CYS:H     | 1:A:10:GLY:HA3 | 4        | 5.59          |
| (1,1922) | 1:A:7:CYS:H     | 1:A:10:GLY:HA3 | 6        | 5.59          |
| (1,1745) | 1:A:6:GLN:HG3   | 1:A:12:GLY:H   | 2        | 5.59          |
| (1,1745) | 1:A:6:GLN:HG3   | 1:A:12:GLY:H   | 10       | 5.59          |
| (1,1745) | 1:A:6:GLN:HG3   | 1:A:12:GLY:H   | 12       | 5.59          |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE1 | 5        | 5.59          |
| (1,1581) | 1:A:6:GLN:HA    | 1:A:32:TYR:HE2 | 5        | 5.59          |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD1 | 12       | 5.59          |
| (1,1580) | 1:A:6:GLN:HA    | 1:A:32:TYR:HD2 | 12       | 5.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 3        | 5.59          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 10       | 5.59          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H    | 17       | 5.59          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2  | 14       | 5.59          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3  | 14       | 5.59          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 18       | 5.59          |
| (1,1127) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HD1  | 15       | 5.59          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD2  | 1        | 5.59          |
| (1,1065) | 1:A:4:ASN:H    | 1:A:15:ARG:HD3  | 1        | 5.59          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 8        | 5.59          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 2        | 5.58          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 2        | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 18       | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 18       | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 18       | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 18       | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 18       | 5.58          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 18       | 5.58          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 10       | 5.58          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 18       | 5.58          |
| (1,643)  | 1:A:2:GLY:H    | 1:A:25:TYR:HB3  | 5        | 5.58          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3  | 20       | 5.58          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 8        | 5.58          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 8        | 5.58          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 8        | 5.58          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 17       | 5.58          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 17       | 5.58          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 17       | 5.58          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 1        | 5.58          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2  | 1        | 5.58          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3  | 1        | 5.58          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 3        | 5.58          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 3        | 5.58          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 3        | 5.58          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 18       | 5.58          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2  | 18       | 5.58          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3  | 18       | 5.58          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA   | 7        | 5.58          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA   | 10       | 5.58          |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H    | 12       | 5.58          |
| (1,4427) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HA   | 16       | 5.58          |
| (1,4427) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HA   | 16       | 5.58          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 20       | 5.58          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 20       | 5.58          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 9        | 5.58          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 9        | 5.58          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 9        | 5.58          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 9        | 5.58          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 3        | 5.58          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 3        | 5.58          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 3        | 5.58          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 5        | 5.58          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 5        | 5.58          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 2        | 5.58          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 10       | 5.58          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 10       | 5.58          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 7        | 5.58          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 7        | 5.58          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 5        | 5.58          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 7        | 5.58          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 8        | 5.58          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 13       | 5.58          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 15       | 5.58          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 16       | 5.58          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 12       | 5.58          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 2        | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 1        | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 1        | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 11       | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 11       | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 14       | 5.58          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 14       | 5.58          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 17       | 5.58          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 16       | 5.58          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 13       | 5.58          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 13       | 5.58          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 8        | 5.58          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 8        | 5.58          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 8        | 5.58          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 4        | 5.58          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 4        | 5.58          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 4        | 5.58          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE1 | 14       | 5.58          |
| (1,3754) | 1:A:18:LEU:HG   | 1:A:32:TYR:HE2 | 14       | 5.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H   | 7        | 5.58          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H   | 18       | 5.58          |
| (1,3592) | 1:A:17:GLY:HA2 | 1:A:20:CYS:H   | 19       | 5.58          |
| (1,3509) | 1:A:16:GLY:HA2 | 1:A:26:CYS:HB3 | 8        | 5.58          |
| (1,3509) | 1:A:16:GLY:HA2 | 1:A:26:CYS:HB3 | 9        | 5.58          |
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H   | 11       | 5.58          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 11       | 5.58          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2 | 16       | 5.58          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3 | 16       | 5.58          |
| (1,3117) | 1:A:13:GLY:H   | 1:A:26:CYS:HA  | 17       | 5.58          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2 | 12       | 5.58          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3 | 12       | 5.58          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB2 | 17       | 5.58          |
| (1,2752) | 1:A:11:TRP:HD1 | 1:A:26:CYS:HB3 | 17       | 5.58          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1 | 20       | 5.58          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2 | 20       | 5.58          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1 | 20       | 5.58          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2 | 20       | 5.58          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2 | 1        | 5.58          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 13       | 5.58          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 4        | 5.58          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 13       | 5.58          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA  | 11       | 5.58          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 5        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 1        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 3        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 5        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 6        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 7        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 8        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 9        | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 11       | 5.58          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 16       | 5.58          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1 | 4        | 5.58          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2 | 4        | 5.58          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 17       | 5.58          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 20       | 5.58          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 20       | 5.58          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 15       | 5.58          |
| (1,1484) | 1:A:5:GLY:HA3  | 1:A:20:CYS:H   | 7        | 5.58          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA  | 2        | 5.58          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H   | 17       | 5.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 11       | 5.57          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 11       | 5.57          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 6        | 5.57          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 6        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 8        | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 19       | 5.57          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 5        | 5.57          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 16       | 5.57          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 2        | 5.57          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 3        | 5.57          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 3        | 5.57          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 12       | 5.57          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 12       | 5.57          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 12       | 5.57          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 18       | 5.57          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 14       | 5.57          |
| (1,4748) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB2  | 15       | 5.57          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 11       | 5.57          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 11       | 5.57          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2  | 8        | 5.57          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3  | 8        | 5.57          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2  | 8        | 5.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 8        | 5.57          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 14       | 5.57          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 16       | 5.57          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 16       | 5.57          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 14       | 5.57          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 14       | 5.57          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 17       | 5.57          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 6        | 5.57          |
| (1,4172) | 1:A:22:GLN:HG2  | 1:A:26:CYS:HA  | 15       | 5.57          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 1        | 5.57          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 11       | 5.57          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 8        | 5.57          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 8        | 5.57          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 7        | 5.57          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 5        | 5.57          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 5        | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 1        | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 1        | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 14       | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 14       | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 17       | 5.57          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 17       | 5.57          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 3        | 5.57          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 1        | 5.57          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 1        | 5.57          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 13       | 5.57          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 13       | 5.57          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 20       | 5.57          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 18       | 5.57          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 19       | 5.57          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 13       | 5.57          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 12       | 5.57          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 9        | 5.57          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 9        | 5.57          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 16       | 5.57          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H   | 13       | 5.57          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 8        | 5.57          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 8        | 5.57          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB2 | 2        | 5.57          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB3 | 2        | 5.57          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB2 | 10       | 5.57          |
| (1,2157) | 1:A:9:PRO:HA    | 1:A:20:CYS:HB3 | 10       | 5.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H    | 3        | 5.57          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 13       | 5.57          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3  | 1        | 5.57          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3  | 14       | 5.57          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 2        | 5.57          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3  | 10       | 5.57          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H    | 18       | 5.57          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H    | 19       | 5.57          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H    | 20       | 5.57          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB2  | 14       | 5.57          |
| (1,1631) | 1:A:6:GLN:HB3  | 1:A:14:CYS:HB3  | 14       | 5.57          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 13       | 5.57          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1  | 1        | 5.57          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 5        | 5.57          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 19       | 5.57          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 16       | 5.56          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 16       | 5.56          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 16       | 5.56          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 16       | 5.56          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 16       | 5.56          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 16       | 5.56          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 8        | 5.56          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 14       | 5.56          |
| (1,781)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HH2  | 9        | 5.56          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 6        | 5.56          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3  | 18       | 5.56          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3  | 6        | 5.56          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3  | 6        | 5.56          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 20       | 5.56          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 20       | 5.56          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 16       | 5.56          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1  | 19       | 5.56          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2  | 19       | 5.56          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3  | 19       | 5.56          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1  | 17       | 5.56          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2  | 17       | 5.56          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3  | 17       | 5.56          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 12       | 5.56          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 12       | 5.56          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 1        | 5.56          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 12       | 5.56          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 12       | 5.56          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 7        | 5.56          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 9        | 5.56          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 18       | 5.56          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 18       | 5.56          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 18       | 5.56          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 18       | 5.56          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 6        | 5.56          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 6        | 5.56          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 6        | 5.56          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 6        | 5.56          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 6        | 5.56          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 5        | 5.56          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 5        | 5.56          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 19       | 5.56          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 10       | 5.56          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 10       | 5.56          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 5        | 5.56          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 9        | 5.56          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 13       | 5.56          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 13       | 5.56          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 18       | 5.56          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 18       | 5.56          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 8        | 5.56          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 8        | 5.56          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 4        | 5.56          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 9        | 5.56          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 13       | 5.56          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 13       | 5.56          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 11       | 5.56          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 20       | 5.56          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 6        | 5.56          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 1        | 5.56          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 11       | 5.56          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 17       | 5.56          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 5        | 5.56          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 5        | 5.56          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 5        | 5.56          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 17       | 5.56          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 20       | 5.56          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 7        | 5.56          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 11       | 5.56          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 13       | 5.56          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 12       | 5.56          |
| (1,3260) | 1:A:15:ARG:H   | 1:A:21:SER:H    | 20       | 5.56          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 18       | 5.56          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 18       | 5.56          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB2  | 19       | 5.56          |
| (1,3191) | 1:A:14:CYS:H   | 1:A:33:CYS:HB3  | 19       | 5.56          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H    | 1        | 5.56          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 3        | 5.56          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 20       | 5.56          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 20       | 5.56          |
| (1,2372) | 1:A:9:PRO:HG3  | 1:A:13:GLY:HA2  | 12       | 5.56          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2  | 5        | 5.56          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3  | 5        | 5.56          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H    | 11       | 5.56          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 12       | 5.56          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 15       | 5.56          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3  | 11       | 5.56          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H    | 14       | 5.56          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H    | 15       | 5.56          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 7        | 5.56          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 7        | 5.56          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 9        | 5.56          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 9        | 5.56          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 2        | 5.56          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD1  | 15       | 5.56          |
| (1,1218) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HD2  | 15       | 5.56          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 19       | 5.56          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 7        | 5.56          |
| (1,1003) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HE1  | 18       | 5.56          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 15       | 5.55          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 15       | 5.55          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 11       | 5.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3 | 13       | 5.55          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3 | 19       | 5.55          |
| (1,573)  | 1:A:1:SER:HB2   | 1:A:25:TYR:H   | 1        | 5.55          |
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H   | 1        | 5.55          |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H   | 16       | 5.55          |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H   | 16       | 5.55          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2 | 15       | 5.55          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2 | 15       | 5.55          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H   | 18       | 5.55          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H   | 18       | 5.55          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 17       | 5.55          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 17       | 5.55          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3 | 10       | 5.55          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 5        | 5.55          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE1 | 14       | 5.55          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE2 | 14       | 5.55          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 17       | 5.55          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 17       | 5.55          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 1        | 5.55          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 8        | 5.55          |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H   | 10       | 5.55          |
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H   | 2        | 5.55          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H   | 2        | 5.55          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 2        | 5.55          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 2        | 5.55          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 1        | 5.55          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 11       | 5.55          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 7        | 5.55          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 7        | 5.55          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 16       | 5.55          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 8        | 5.55          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 18       | 5.55          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 9        | 5.55          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 9        | 5.55          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 13       | 5.55          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2 | 13       | 5.55          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 4        | 5.55          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 18       | 5.55          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 19       | 5.55          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H   | 20       | 5.55          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 7        | 5.55          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 18       | 5.55          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 1        | 5.55          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 11       | 5.55          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 11       | 5.55          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 11       | 5.55          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 12       | 5.55          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 12       | 5.55          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 12       | 5.55          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 12       | 5.55          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 12       | 5.55          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 3        | 5.55          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 3        | 5.55          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 3        | 5.55          |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H   | 10       | 5.55          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 8        | 5.55          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H   | 12       | 5.55          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 11       | 5.55          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 15       | 5.55          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 1        | 5.55          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 5        | 5.55          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 5        | 5.55          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 7        | 5.55          |
| (1,3276) | 1:A:15:ARG:H    | 1:A:32:TYR:HB3 | 16       | 5.55          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 9        | 5.55          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 7        | 5.55          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 7        | 5.55          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD1 | 8        | 5.55          |
| (1,3242) | 1:A:14:CYS:HB3  | 1:A:25:TYR:HD2 | 8        | 5.55          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 13       | 5.55          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H   | 1        | 5.55          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H   | 4        | 5.55          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H   | 6        | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 7        | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 7        | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 18       | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 18       | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 19       | 5.55          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 19       | 5.55          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 5        | 5.55          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 5        | 5.55          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1 | 5        | 5.55          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2 | 5        | 5.55          |
| (1,2302) | 1:A:9:PRO:HG2   | 1:A:12:GLY:HA2 | 3        | 5.55          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 1        | 5.55          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 11       | 5.55          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 1        | 5.55          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 3        | 5.55          |
| (1,1630) | 1:A:6:GLN:HB3  | 1:A:13:GLY:H   | 17       | 5.55          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 1        | 5.55          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 15       | 5.55          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 15       | 5.55          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 18       | 5.55          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 18       | 5.55          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 13       | 5.55          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 18       | 5.55          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 8        | 5.55          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 1        | 5.54          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 1        | 5.54          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H   | 10       | 5.54          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 1        | 5.54          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 1        | 5.54          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 9        | 5.54          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 9        | 5.54          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 13       | 5.54          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 13       | 5.54          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 14       | 5.54          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 14       | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 2        | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 2        | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 3        | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 3        | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 4        | 5.54          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 4        | 5.54          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 5        | 5.54          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 5        | 5.54          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1 | 19       | 5.54          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1 | 19       | 5.54          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1 | 12       | 5.54          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2 | 12       | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1 | 1        | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2 | 1        | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3 | 1        | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1 | 3        | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2 | 3        | 5.54          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3 | 3        | 5.54          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H    | 9        | 5.54          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA   | 7        | 5.54          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA   | 9        | 5.54          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA   | 14       | 5.54          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 4        | 5.54          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 4        | 5.54          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2  | 7        | 5.54          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3  | 7        | 5.54          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H    | 8        | 5.54          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 17       | 5.54          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 17       | 5.54          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H    | 1        | 5.54          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 16       | 5.54          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 16       | 5.54          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 2        | 5.54          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 2        | 5.54          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1  | 6        | 5.54          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2  | 6        | 5.54          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H    | 5        | 5.54          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H    | 2        | 5.54          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 12       | 5.54          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 12       | 5.54          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H    | 15       | 5.54          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE21 | 2        | 5.54          |
| (1,3916) | 1:A:20:CYS:H    | 1:A:22:GLN:HE22 | 2        | 5.54          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 9        | 5.54          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 16       | 5.54          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 17       | 5.54          |
| (1,3791) | 1:A:18:LEU:HD11 | 1:A:33:CYS:HB2  | 14       | 5.54          |
| (1,3791) | 1:A:18:LEU:HD12 | 1:A:33:CYS:HB2  | 14       | 5.54          |
| (1,3791) | 1:A:18:LEU:HD13 | 1:A:33:CYS:HB2  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE1  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HE2  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE1  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HE2  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE1  | 14       | 5.54          |
| (1,3778) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HE2  | 14       | 5.54          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 2        | 5.54          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 4        | 5.54          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 17       | 5.54          |
| (1,3427) | 1:A:15:ARG:HE   | 1:A:20:CYS:H    | 7        | 5.54          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H    | 15       | 5.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 9        | 5.54          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 20       | 5.54          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD1  | 13       | 5.54          |
| (1,3277) | 1:A:15:ARG:H   | 1:A:32:TYR:HD2  | 13       | 5.54          |
| (1,3260) | 1:A:15:ARG:H   | 1:A:21:SER:H    | 8        | 5.54          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H    | 15       | 5.54          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 13       | 5.54          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 13       | 5.54          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 12       | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 9        | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 9        | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 12       | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 12       | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 16       | 5.54          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 16       | 5.54          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 19       | 5.54          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 19       | 5.54          |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 19       | 5.54          |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 19       | 5.54          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2  | 4        | 5.54          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2  | 6        | 5.54          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2  | 4        | 5.54          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3  | 4        | 5.54          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H    | 12       | 5.54          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 3        | 5.54          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 3        | 5.54          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 8        | 5.54          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 12       | 5.54          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 19       | 5.54          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 1        | 5.54          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 1        | 5.54          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 2        | 5.54          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 2        | 5.54          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 8        | 5.54          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 8        | 5.54          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1  | 17       | 5.54          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2  | 17       | 5.54          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 16       | 5.54          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 16       | 5.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1  | 20       | 5.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2  | 20       | 5.54          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 5        | 5.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 6        | 5.54          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 4        | 5.54          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 4        | 5.54          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 5        | 5.53          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 5        | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD11 | 20       | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD12 | 20       | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD13 | 20       | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD21 | 20       | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD22 | 20       | 5.53          |
| (1,853)  | 1:A:3:PRO:HB3  | 1:A:18:LEU:HD23 | 20       | 5.53          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 12       | 5.53          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3  | 7        | 5.53          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1  | 16       | 5.53          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 10       | 5.53          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 10       | 5.53          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 10       | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 2        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 2        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 4        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 4        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 8        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 8        | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE1  | 13       | 5.53          |
| (1,4811) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HE2  | 13       | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1  | 6        | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2  | 6        | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3  | 6        | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1  | 11       | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2  | 11       | 5.53          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3  | 11       | 5.53          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 13       | 5.53          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 15       | 5.53          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2  | 14       | 5.53          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2  | 14       | 5.53          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3  | 14       | 5.53          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3  | 14       | 5.53          |
| (1,4491) | 1:A:24:GLY:HA3 | 1:A:27:GLY:H    | 19       | 5.53          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 13       | 5.53          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 13       | 5.53          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H    | 20       | 5.53          |
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA   | 3        | 5.53          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 17       | 5.53          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 17       | 5.53          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 3        | 5.53          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 8        | 5.53          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 8        | 5.53          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 8        | 5.53          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 4        | 5.53          |
| (1,4046) | 1:A:21:SER:H    | 1:A:35:HIS:HE1  | 1        | 5.53          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H    | 13       | 5.53          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H    | 15       | 5.53          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 12       | 5.53          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 12       | 5.53          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 20       | 5.53          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H    | 17       | 5.53          |
| (1,3890) | 1:A:19:CYS:HB3  | 1:A:23:TYR:H    | 7        | 5.53          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3  | 20       | 5.53          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1  | 17       | 5.53          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2  | 17       | 5.53          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 11       | 5.53          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 11       | 5.53          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 11       | 5.53          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 6        | 5.53          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 6        | 5.53          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 6        | 5.53          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H    | 19       | 5.53          |
| (1,3592) | 1:A:17:GLY:HA2  | 1:A:20:CYS:H    | 9        | 5.53          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H    | 13       | 5.53          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 3        | 5.53          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 3        | 5.53          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA   | 13       | 5.53          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA   | 13       | 5.53          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 14       | 5.53          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3  | 5        | 5.53          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 13       | 5.53          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2  | 13       | 5.53          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2  | 13       | 5.53          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3  | 13       | 5.53          |
| (1,2750) | 1:A:11:TRP:HD1  | 1:A:26:CYS:H    | 13       | 5.53          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE1  | 10       | 5.53          |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE2  | 10       | 5.53          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H    | 2        | 5.53          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H    | 5        | 5.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H   | 10       | 5.53          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2 | 14       | 5.53          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3 | 14       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 13       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 13       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 13       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 13       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 15       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 15       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 15       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 15       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 18       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 18       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 18       | 5.53          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 18       | 5.53          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 2        | 5.53          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 5        | 5.53          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 10       | 5.53          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 3        | 5.53          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 3        | 5.53          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 6        | 5.53          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 6        | 5.53          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 16       | 5.53          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 18       | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 4        | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 4        | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 11       | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 11       | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 13       | 5.53          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 13       | 5.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 19       | 5.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 19       | 5.53          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 14       | 5.53          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 20       | 5.53          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 20       | 5.53          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 11       | 5.53          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 19       | 5.53          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 3        | 5.53          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 3        | 5.53          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 12       | 5.53          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 12       | 5.53          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2 | 4        | 5.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 4        | 5.53          |
| (1,616)  | 1:A:2:GLY:H     | 1:A:14:CYS:H   | 2        | 5.52          |
| (1,4910) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:HB2 | 11       | 5.52          |
| (1,4910) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:HB2 | 11       | 5.52          |
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2 | 11       | 5.52          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1 | 19       | 5.52          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE1 | 15       | 5.52          |
| (1,4811) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HE2 | 15       | 5.52          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 12       | 5.52          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 12       | 5.52          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 10       | 5.52          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 2        | 5.52          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 4        | 5.52          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 16       | 5.52          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 18       | 5.52          |
| (1,4491) | 1:A:24:GLY:HA3  | 1:A:27:GLY:H   | 20       | 5.52          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 11       | 5.52          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 8        | 5.52          |
| (1,4094) | 1:A:21:SER:HG   | 1:A:33:CYS:H   | 17       | 5.52          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 5        | 5.52          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 5        | 5.52          |
| (1,4086) | 1:A:21:SER:HG   | 1:A:31:LYS:HB2 | 15       | 5.52          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 4        | 5.52          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H   | 18       | 5.52          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 7        | 5.52          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 3        | 5.52          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 3        | 5.52          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 3        | 5.52          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 18       | 5.52          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 10       | 5.52          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 10       | 5.52          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB2 | 20       | 5.52          |
| (1,3428) | 1:A:15:ARG:HE   | 1:A:20:CYS:HB3 | 20       | 5.52          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 15       | 5.52          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 15       | 5.52          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 14       | 5.52          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 1        | 5.52          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 11       | 5.52          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2 | 1        | 5.52          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2 | 11       | 5.52          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 10       | 5.52          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 10       | 5.52          |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,2442) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HD1  | 19       | 5.52          |
| (1,2442) | 1:A:9:PRO:HD2 | 1:A:25:TYR:HD2  | 19       | 5.52          |
| (1,2442) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HD1  | 19       | 5.52          |
| (1,2442) | 1:A:9:PRO:HD3 | 1:A:25:TYR:HD2  | 19       | 5.52          |
| (1,2396) | 1:A:9:PRO:HG3 | 1:A:24:GLY:HA2  | 14       | 5.52          |
| (1,2372) | 1:A:9:PRO:HG3 | 1:A:13:GLY:HA2  | 14       | 5.52          |
| (1,2157) | 1:A:9:PRO:HA  | 1:A:20:CYS:HB2  | 6        | 5.52          |
| (1,2157) | 1:A:9:PRO:HA  | 1:A:20:CYS:HB3  | 6        | 5.52          |
| (1,1948) | 1:A:7:CYS:H   | 1:A:22:GLN:HA   | 20       | 5.52          |
| (1,1748) | 1:A:6:GLN:HG3 | 1:A:13:GLY:HA2  | 17       | 5.52          |
| (1,1748) | 1:A:6:GLN:HG3 | 1:A:13:GLY:HA3  | 17       | 5.52          |
| (1,1591) | 1:A:6:GLN:HB2 | 1:A:13:GLY:H    | 7        | 5.52          |
| (1,1591) | 1:A:6:GLN:HB2 | 1:A:13:GLY:H    | 8        | 5.52          |
| (1,1591) | 1:A:6:GLN:HB2 | 1:A:13:GLY:H    | 14       | 5.52          |
| (1,1591) | 1:A:6:GLN:HB2 | 1:A:13:GLY:H    | 16       | 5.52          |
| (1,1591) | 1:A:6:GLN:HB2 | 1:A:13:GLY:H    | 20       | 5.52          |
| (1,1580) | 1:A:6:GLN:HA  | 1:A:32:TYR:HD1  | 13       | 5.52          |
| (1,1580) | 1:A:6:GLN:HA  | 1:A:32:TYR:HD2  | 13       | 5.52          |
| (1,1556) | 1:A:6:GLN:HA  | 1:A:14:CYS:HB2  | 12       | 5.52          |
| (1,1495) | 1:A:5:GLY:HA3 | 1:A:32:TYR:HD1  | 18       | 5.52          |
| (1,1495) | 1:A:5:GLY:HA3 | 1:A:32:TYR:HD2  | 18       | 5.52          |
| (1,1406) | 1:A:5:GLY:H   | 1:A:11:TRP:HD1  | 20       | 5.52          |
| (1,1159) | 1:A:4:ASN:HB2 | 1:A:25:TYR:H    | 11       | 5.52          |
| (1,1129) | 1:A:4:ASN:HB2 | 1:A:11:TRP:HE1  | 16       | 5.52          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD11 | 9        | 5.51          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD12 | 9        | 5.51          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD13 | 9        | 5.51          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD21 | 9        | 5.51          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD22 | 9        | 5.51          |
| (1,853)  | 1:A:3:PRO:HB3 | 1:A:18:LEU:HD23 | 9        | 5.51          |
| (1,643)  | 1:A:2:GLY:H   | 1:A:25:TYR:HB3  | 2        | 5.51          |
| (1,643)  | 1:A:2:GLY:H   | 1:A:25:TYR:HB3  | 10       | 5.51          |
| (1,617)  | 1:A:2:GLY:H   | 1:A:14:CYS:HB2  | 13       | 5.51          |
| (1,617)  | 1:A:2:GLY:H   | 1:A:14:CYS:HB3  | 13       | 5.51          |
| (1,615)  | 1:A:2:GLY:H   | 1:A:13:GLY:HA3  | 15       | 5.51          |
| (1,556)  | 1:A:1:SER:HB2 | 1:A:18:LEU:H    | 12       | 5.51          |
| (1,556)  | 1:A:1:SER:HB3 | 1:A:18:LEU:H    | 12       | 5.51          |
| (1,555)  | 1:A:1:SER:HB2 | 1:A:16:GLY:H    | 1        | 5.51          |
| (1,555)  | 1:A:1:SER:HB3 | 1:A:16:GLY:H    | 1        | 5.51          |
| (1,521)  | 1:A:1:SER:HA  | 1:A:20:CYS:HB2  | 18       | 5.51          |
| (1,521)  | 1:A:1:SER:HA  | 1:A:20:CYS:HB3  | 18       | 5.51          |
| (1,4922) | 1:A:32:TYR:HA | 1:A:35:HIS:HE1  | 9        | 5.51          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4872) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HB3 | 1        | 5.51          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 13       | 5.51          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2 | 13       | 5.51          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 5        | 5.51          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3 | 5        | 5.51          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 10       | 5.51          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3 | 10       | 5.51          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB1 | 5        | 5.51          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB2 | 5        | 5.51          |
| (1,4745) | 1:A:28:SER:HB2 | 1:A:34:ALA:HB3 | 5        | 5.51          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA  | 10       | 5.51          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2 | 3        | 5.51          |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 2        | 5.51          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA  | 5        | 5.51          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2 | 16       | 5.51          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2 | 16       | 5.51          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3 | 16       | 5.51          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3 | 16       | 5.51          |
| (1,4428) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB2 | 6        | 5.51          |
| (1,4428) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB2 | 6        | 5.51          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2 | 8        | 5.51          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2 | 8        | 5.51          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3 | 8        | 5.51          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3 | 8        | 5.51          |
| (1,4413) | 1:A:23:TYR:HD1 | 1:A:35:HIS:HB3 | 1        | 5.51          |
| (1,4413) | 1:A:23:TYR:HD2 | 1:A:35:HIS:HB3 | 1        | 5.51          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H   | 5        | 5.51          |
| (1,4172) | 1:A:22:GLN:HG2 | 1:A:26:CYS:HA  | 10       | 5.51          |
| (1,4094) | 1:A:21:SER:HG  | 1:A:33:CYS:H   | 16       | 5.51          |
| (1,4094) | 1:A:21:SER:HG  | 1:A:33:CYS:H   | 18       | 5.51          |
| (1,4094) | 1:A:21:SER:HG  | 1:A:33:CYS:H   | 19       | 5.51          |
| (1,4094) | 1:A:21:SER:HG  | 1:A:33:CYS:H   | 20       | 5.51          |
| (1,4036) | 1:A:21:SER:H   | 1:A:31:LYS:HB3 | 13       | 5.51          |
| (1,4007) | 1:A:20:CYS:HB3 | 1:A:34:ALA:H   | 15       | 5.51          |
| (1,3987) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HD1 | 7        | 5.51          |
| (1,3987) | 1:A:20:CYS:HB3 | 1:A:23:TYR:HD2 | 7        | 5.51          |
| (1,3975) | 1:A:20:CYS:HB2 | 1:A:33:CYS:H   | 11       | 5.51          |
| (1,3975) | 1:A:20:CYS:HB2 | 1:A:33:CYS:H   | 17       | 5.51          |
| (1,3931) | 1:A:20:CYS:H   | 1:A:29:GLY:H   | 19       | 5.51          |
| (1,3895) | 1:A:19:CYS:HB3 | 1:A:24:GLY:HA2 | 5        | 5.51          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1 | 14       | 5.51          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2 | 14       | 5.51          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1 | 15       | 5.51          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2 | 15       | 5.51          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA  | 8        | 5.51          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2 | 8        | 5.51          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H   | 11       | 5.51          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H   | 12       | 5.51          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H   | 15       | 5.51          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2 | 2        | 5.51          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3 | 2        | 5.51          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 11       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 11       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 11       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 11       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1 | 20       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2 | 20       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1 | 20       | 5.51          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 20       | 5.51          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 11       | 5.51          |
| (1,2302) | 1:A:9:PRO:HG2  | 1:A:12:GLY:HA2 | 17       | 5.51          |
| (1,1745) | 1:A:6:GLN:HG3  | 1:A:12:GLY:H   | 13       | 5.51          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 5        | 5.51          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 6        | 5.51          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 11       | 5.51          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 13       | 5.51          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1 | 17       | 5.51          |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2 | 17       | 5.51          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1 | 15       | 5.51          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2 | 15       | 5.51          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 15       | 5.51          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 8        | 5.51          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3 | 16       | 5.51          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 10       | 5.51          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 10       | 5.51          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 16       | 5.51          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 16       | 5.51          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 9        | 5.51          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 9        | 5.51          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 7        | 5.51          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 8        | 5.51          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 12       | 5.51          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 16       | 5.51          |
| (1,1406) | 1:A:5:GLY:H    | 1:A:11:TRP:HD1 | 18       | 5.51          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB2 | 20       | 5.51          |
| (1,1329) | 1:A:4:ASN:HD22  | 1:A:11:TRP:HB3 | 20       | 5.51          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 9        | 5.5           |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 9        | 5.5           |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H   | 15       | 5.5           |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H   | 15       | 5.5           |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2 | 14       | 5.5           |
| (1,4890) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HA  | 3        | 5.5           |
| (1,4816) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HB2 | 5        | 5.5           |
| (1,4750) | 1:A:28:SER:HB3  | 1:A:31:LYS:HB3 | 19       | 5.5           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB1 | 9        | 5.5           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB2 | 9        | 5.5           |
| (1,4745) | 1:A:28:SER:HB2  | 1:A:34:ALA:HB3 | 9        | 5.5           |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 13       | 5.5           |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 13       | 5.5           |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 13       | 5.5           |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 16       | 5.5           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 16       | 5.5           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 18       | 5.5           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 20       | 5.5           |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 16       | 5.5           |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 16       | 5.5           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG2 | 20       | 5.5           |
| (1,4516) | 1:A:25:TYR:H    | 1:A:31:LYS:HG3 | 20       | 5.5           |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 4        | 5.5           |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 4        | 5.5           |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 12       | 5.5           |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 12       | 5.5           |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA  | 4        | 5.5           |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA  | 4        | 5.5           |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 1        | 5.5           |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 18       | 5.5           |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 19       | 5.5           |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 7        | 5.5           |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 2        | 5.5           |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3 | 2        | 5.5           |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 8        | 5.5           |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 18       | 5.5           |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 19       | 5.5           |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 20       | 5.5           |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H   | 1        | 5.5           |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1 | 2        | 5.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3974) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HE2  | 2        | 5.5           |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 2        | 5.5           |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 5        | 5.5           |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 14       | 5.5           |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H    | 1        | 5.5           |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 3        | 5.5           |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 9        | 5.5           |
| (1,3509) | 1:A:16:GLY:HA2 | 1:A:26:CYS:HB3  | 6        | 5.5           |
| (1,3509) | 1:A:16:GLY:HA2 | 1:A:26:CYS:HB3  | 13       | 5.5           |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2  | 2        | 5.5           |
| (1,3379) | 1:A:15:ARG:HG2 | 1:A:28:SER:H    | 11       | 5.5           |
| (1,3379) | 1:A:15:ARG:HG3 | 1:A:28:SER:H    | 11       | 5.5           |
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2  | 13       | 5.5           |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2  | 13       | 5.5           |
| (1,3260) | 1:A:15:ARG:H   | 1:A:21:SER:H    | 16       | 5.5           |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H    | 11       | 5.5           |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE   | 5        | 5.5           |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2  | 1        | 5.5           |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3  | 1        | 5.5           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1  | 2        | 5.5           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2  | 2        | 5.5           |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 15       | 5.5           |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 4        | 5.5           |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 4        | 5.5           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE21 | 11       | 5.5           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE21 | 11       | 5.5           |
| (1,2439) | 1:A:9:PRO:HD2  | 1:A:22:GLN:HE22 | 11       | 5.5           |
| (1,2439) | 1:A:9:PRO:HD3  | 1:A:22:GLN:HE22 | 11       | 5.5           |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2  | 4        | 5.5           |
| (1,2140) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE3  | 13       | 5.5           |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 18       | 5.5           |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 19       | 5.5           |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 11       | 5.5           |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 11       | 5.5           |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 12       | 5.5           |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 12       | 5.5           |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 10       | 5.5           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE1  | 2        | 5.5           |
| (1,1581) | 1:A:6:GLN:HA   | 1:A:32:TYR:HE2  | 2        | 5.5           |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 1        | 5.5           |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 1        | 5.5           |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1  | 19       | 5.5           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD2 | 19       | 5.5           |
| (1,1406) | 1:A:5:GLY:H     | 1:A:11:TRP:HD1 | 15       | 5.5           |
| (1,1192) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ3 | 7        | 5.5           |
| (1,1129) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE1 | 1        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA2 | 2        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 2        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA2 | 3        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 3        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA2 | 5        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 5        | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA2 | 10       | 5.5           |
| (1,1088) | 1:A:4:ASN:H     | 1:A:24:GLY:HA3 | 10       | 5.5           |
| (1,1003) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HE1 | 9        | 5.5           |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA  | 10       | 5.49          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA  | 10       | 5.49          |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA  | 20       | 5.49          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA  | 20       | 5.49          |
| (1,845)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HH2 | 12       | 5.49          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3 | 16       | 5.49          |
| (1,563)  | 1:A:1:SER:HB2   | 1:A:21:SER:HG  | 10       | 5.49          |
| (1,563)  | 1:A:1:SER:HB3   | 1:A:21:SER:HG  | 10       | 5.49          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2 | 8        | 5.49          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3 | 8        | 5.49          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3 | 11       | 5.49          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 11       | 5.49          |
| (1,4816) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HB2 | 18       | 5.49          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 4        | 5.49          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 17       | 5.49          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 9        | 5.49          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 12       | 5.49          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 18       | 5.49          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 19       | 5.49          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 20       | 5.49          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 19       | 5.49          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 3        | 5.49          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 3        | 5.49          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 4        | 5.49          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 14       | 5.49          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 6        | 5.49          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H   | 20       | 5.49          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 11       | 5.49          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 11       | 5.49          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 8        | 5.49          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 8        | 5.49          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 1        | 5.49          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 8        | 5.49          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 8        | 5.49          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 18       | 5.49          |
| (1,4036) | 1:A:21:SER:H    | 1:A:31:LYS:HB3  | 4        | 5.49          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE1  | 4        | 5.49          |
| (1,3974) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HE2  | 4        | 5.49          |
| (1,3931) | 1:A:20:CYS:H    | 1:A:29:GLY:H    | 16       | 5.49          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H    | 6        | 5.49          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 13       | 5.49          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 13       | 5.49          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 13       | 5.49          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 9        | 5.49          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 9        | 5.49          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3  | 5        | 5.49          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H    | 9        | 5.49          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H    | 9        | 5.49          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2  | 4        | 5.49          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2  | 10       | 5.49          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 9        | 5.49          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2  | 15       | 5.49          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3  | 15       | 5.49          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 20       | 5.49          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H    | 16       | 5.49          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H    | 17       | 5.49          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2  | 5        | 5.49          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3  | 5        | 5.49          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2  | 10       | 5.49          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2  | 15       | 5.49          |
| (1,2331) | 1:A:9:PRO:HG2   | 1:A:24:GLY:HA2  | 1        | 5.49          |
| (1,1948) | 1:A:7:CYS:H     | 1:A:22:GLN:HA   | 9        | 5.49          |
| (1,1940) | 1:A:7:CYS:H     | 1:A:19:CYS:HA   | 13       | 5.49          |
| (1,1556) | 1:A:6:GLN:HA    | 1:A:14:CYS:HB2  | 16       | 5.49          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3  | 18       | 5.49          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3  | 19       | 5.49          |
| (1,1285) | 1:A:4:ASN:HD21  | 1:A:26:CYS:H    | 8        | 5.49          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA   | 20       | 5.49          |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA   | 1        | 5.48          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA   | 1        | 5.48          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD11 | 7        | 5.48          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD12 | 7        | 5.48          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD13 | 7        | 5.48          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD21 | 7        | 5.48          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD22 | 7        | 5.48          |
| (1,853)  | 1:A:3:PRO:HB3   | 1:A:18:LEU:HD23 | 7        | 5.48          |
| (1,641)  | 1:A:2:GLY:H     | 1:A:24:GLY:HA2  | 10       | 5.48          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3  | 8        | 5.48          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3  | 12       | 5.48          |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H    | 19       | 5.48          |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H    | 19       | 5.48          |
| (1,554)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HE   | 6        | 5.48          |
| (1,554)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HE   | 6        | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2  | 7        | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3  | 7        | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2  | 19       | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3  | 19       | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2  | 20       | 5.48          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3  | 20       | 5.48          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H    | 3        | 5.48          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2  | 12       | 5.48          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3  | 12       | 5.48          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 5        | 5.48          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA   | 11       | 5.48          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA   | 5        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB1  | 2        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB2  | 2        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE1  | 1:A:34:ALA:HB3  | 2        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB1  | 2        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB2  | 2        | 5.48          |
| (1,4440) | 1:A:23:TYR:HE2  | 1:A:34:ALA:HB3  | 2        | 5.48          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 6        | 5.48          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 6        | 5.48          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 13       | 5.48          |
| (1,4238) | 1:A:22:GLN:HB3  | 1:A:33:CYS:H    | 16       | 5.48          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 1        | 5.48          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 1        | 5.48          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 15       | 5.48          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 15       | 5.48          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 5        | 5.48          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 5        | 5.48          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1  | 14       | 5.48          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2  | 14       | 5.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE21 | 2        | 5.48          |
| (1,3955) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HE22 | 2        | 5.48          |
| (1,3895) | 1:A:19:CYS:HB3 | 1:A:24:GLY:HA2  | 2        | 5.48          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 3        | 5.48          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 10       | 5.48          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 13       | 5.48          |
| (1,3841) | 1:A:19:CYS:H   | 1:A:31:LYS:HB3  | 19       | 5.48          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 17       | 5.48          |
| (1,3509) | 1:A:16:GLY:HA2 | 1:A:26:CYS:HB3  | 11       | 5.48          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2  | 6        | 5.48          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3  | 6        | 5.48          |
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2  | 2        | 5.48          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H    | 15       | 5.48          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H    | 12       | 5.48          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3  | 17       | 5.48          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 18       | 5.48          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 7        | 5.48          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 18       | 5.48          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 19       | 5.48          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 3        | 5.48          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 3        | 5.48          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2  | 2        | 5.48          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 14       | 5.48          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 14       | 5.48          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 2        | 5.48          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 9        | 5.48          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 15       | 5.48          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD1  | 11       | 5.48          |
| (1,1580) | 1:A:6:GLN:HA   | 1:A:32:TYR:HD2  | 11       | 5.48          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 19       | 5.48          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 12       | 5.48          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 1        | 5.48          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 8        | 5.48          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 8        | 5.48          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2  | 8        | 5.48          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 11       | 5.48          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 20       | 5.48          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1  | 10       | 5.47          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 10       | 5.47          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 6        | 5.47          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 6        | 5.47          |
| (1,4681) | 1:A:27:GLY:H   | 1:A:31:LYS:HG2  | 2        | 5.47          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 2        | 5.47          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 9        | 5.47          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 9        | 5.47          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 1        | 5.47          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 13       | 5.47          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 13       | 5.47          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 13       | 5.47          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 13       | 5.47          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 9        | 5.47          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 9        | 5.47          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 17       | 5.47          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 10       | 5.47          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 6        | 5.47          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 4        | 5.47          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 4        | 5.47          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 3        | 5.47          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 3        | 5.47          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 4        | 5.47          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 4        | 5.47          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 13       | 5.47          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 13       | 5.47          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 10       | 5.47          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 10       | 5.47          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 20       | 5.47          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 6        | 5.47          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 6        | 5.47          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 10       | 5.47          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 4        | 5.47          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 6        | 5.47          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 8        | 5.47          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 8        | 5.47          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 16       | 5.47          |
| (1,3841) | 1:A:19:CYS:H    | 1:A:31:LYS:HB3 | 18       | 5.47          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 15       | 5.47          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 8        | 5.47          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 8        | 5.47          |
| (1,3660) | 1:A:18:LEU:H    | 1:A:33:CYS:H   | 16       | 5.47          |
| (1,3571) | 1:A:17:GLY:H    | 1:A:28:SER:H   | 16       | 5.47          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 5        | 5.47          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 5        | 5.47          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 17       | 5.47          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 17       | 5.47          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 6        | 5.47          |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 17       | 5.47          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG   | 13       | 5.47          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H    | 20       | 5.47          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H    | 8        | 5.47          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2  | 11       | 5.47          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3  | 11       | 5.47          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1  | 16       | 5.47          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2  | 16       | 5.47          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 19       | 5.47          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 8        | 5.47          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 14       | 5.47          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1  | 10       | 5.47          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2  | 10       | 5.47          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1  | 10       | 5.47          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2  | 10       | 5.47          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2  | 6        | 5.47          |
| (1,2090) | 1:A:8:GLY:HA2  | 1:A:26:CYS:H    | 17       | 5.47          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD1  | 17       | 5.47          |
| (1,2089) | 1:A:8:GLY:HA2  | 1:A:25:TYR:HD2  | 17       | 5.47          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1  | 5        | 5.47          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2  | 5        | 5.47          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 7        | 5.47          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 1        | 5.47          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 1        | 5.47          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 1        | 5.47          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3  | 6        | 5.47          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 7        | 5.47          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 18       | 5.47          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 8        | 5.47          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 8        | 5.47          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA2  | 6        | 5.47          |
| (1,1088) | 1:A:4:ASN:H    | 1:A:24:GLY:HA3  | 6        | 5.47          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 8        | 5.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 16       | 5.46          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 16       | 5.46          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 14       | 5.46          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 14       | 5.46          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 19       | 5.46          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 19       | 5.46          |
| (1,839)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HB3  | 9        | 5.46          |
| (1,641)  | 1:A:2:GLY:H    | 1:A:24:GLY:HA2  | 5        | 5.46          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 14       | 5.46          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 14       | 5.46          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2  | 11       | 5.46          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 11       | 5.46          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 2        | 5.46          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 2        | 5.46          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 17       | 5.46          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 17       | 5.46          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 17       | 5.46          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 17       | 5.46          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3  | 17       | 5.46          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3  | 17       | 5.46          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA   | 18       | 5.46          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2  | 1        | 5.46          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3  | 1        | 5.46          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2  | 6        | 5.46          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3  | 6        | 5.46          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA   | 14       | 5.46          |
| (1,4622) | 1:A:26:CYS:H   | 1:A:32:TYR:HA   | 17       | 5.46          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA   | 7        | 5.46          |
| (1,4428) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB2  | 20       | 5.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4428) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB2 | 20       | 5.46          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2 | 7        | 5.46          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2 | 7        | 5.46          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA3 | 7        | 5.46          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA3 | 7        | 5.46          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1 | 12       | 5.46          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2 | 12       | 5.46          |
| (1,4193) | 1:A:22:GLN:HB2 | 1:A:32:TYR:H   | 1        | 5.46          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 17       | 5.46          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 18       | 5.46          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 19       | 5.46          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 20       | 5.46          |
| (1,4064) | 1:A:21:SER:HB3 | 1:A:31:LYS:HD2 | 15       | 5.46          |
| (1,4064) | 1:A:21:SER:HB3 | 1:A:31:LYS:HD3 | 15       | 5.46          |
| (1,3975) | 1:A:20:CYS:HB2 | 1:A:33:CYS:H   | 16       | 5.46          |
| (1,3975) | 1:A:20:CYS:HB2 | 1:A:33:CYS:H   | 18       | 5.46          |
| (1,3975) | 1:A:20:CYS:HB2 | 1:A:33:CYS:H   | 20       | 5.46          |
| (1,3929) | 1:A:20:CYS:H   | 1:A:28:SER:H   | 10       | 5.46          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H   | 8        | 5.46          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H   | 12       | 5.46          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H   | 15       | 5.46          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2 | 3        | 5.46          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG3 | 3        | 5.46          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H   | 13       | 5.46          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H   | 3        | 5.46          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 11       | 5.46          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2 | 12       | 5.46          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3 | 12       | 5.46          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3 | 5        | 5.46          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3 | 6        | 5.46          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG  | 2        | 5.46          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG  | 6        | 5.46          |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H   | 14       | 5.46          |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H   | 14       | 5.46          |
| (1,3327) | 1:A:15:ARG:HB3 | 1:A:20:CYS:HB2 | 16       | 5.46          |
| (1,3225) | 1:A:14:CYS:HB2 | 1:A:35:HIS:HE1 | 1        | 5.46          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 15       | 5.46          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H   | 8        | 5.46          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H   | 16       | 5.46          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 10       | 5.46          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 10       | 5.46          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 5        | 5.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2  | 5        | 5.46          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 13       | 5.46          |
| (1,2676) | 1:A:11:TRP:HB3 | 1:A:14:CYS:H    | 20       | 5.46          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB2  | 6        | 5.46          |
| (1,2592) | 1:A:11:TRP:H   | 1:A:20:CYS:HB3  | 6        | 5.46          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD1  | 2        | 5.46          |
| (1,2442) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HD2  | 2        | 5.46          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD1  | 2        | 5.46          |
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2  | 2        | 5.46          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2  | 3        | 5.46          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2  | 14       | 5.46          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 2        | 5.46          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 10       | 5.46          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA   | 16       | 5.46          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 11       | 5.46          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 15       | 5.46          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 9        | 5.46          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 9        | 5.46          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2  | 6        | 5.46          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3  | 6        | 5.46          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2  | 4        | 5.46          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3  | 4        | 5.46          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 3        | 5.46          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H    | 4        | 5.46          |
| (1,1516) | 1:A:6:GLN:H    | 1:A:18:LEU:HB3  | 9        | 5.46          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 11       | 5.46          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 16       | 5.46          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 16       | 5.46          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 8        | 5.46          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 8        | 5.46          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 18       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 18       | 5.45          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 19       | 5.45          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 19       | 5.45          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 14       | 5.45          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 14       | 5.45          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2  | 15       | 5.45          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3  | 15       | 5.45          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 17       | 5.45          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 20       | 5.45          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 20       | 5.45          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 6        | 5.45          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 6        | 5.45          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H    | 11       | 5.45          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H    | 11       | 5.45          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2  | 15       | 5.45          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 15       | 5.45          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2  | 17       | 5.45          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 17       | 5.45          |
| (1,4750) | 1:A:28:SER:HB3 | 1:A:31:LYS:HB3  | 20       | 5.45          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 15       | 5.45          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 15       | 5.45          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2  | 8        | 5.45          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3  | 8        | 5.45          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 2        | 5.45          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 4        | 5.45          |
| (1,4697) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HG2  | 20       | 5.45          |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3  | 3        | 5.45          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2  | 14       | 5.45          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB2  | 19       | 5.45          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB2  | 19       | 5.45          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB3  | 19       | 5.45          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB3  | 19       | 5.45          |
| (1,4395) | 1:A:23:TYR:HD1 | 1:A:27:GLY:H    | 4        | 5.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 4        | 5.45          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB2  | 5        | 5.45          |
| (1,4358) | 1:A:23:TYR:H    | 1:A:35:HIS:HB3  | 5        | 5.45          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 13       | 5.45          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 5        | 5.45          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 5        | 5.45          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 1        | 5.45          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H    | 16       | 5.45          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2  | 7        | 5.45          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 12       | 5.45          |
| (1,3975) | 1:A:20:CYS:HB2  | 1:A:33:CYS:H    | 19       | 5.45          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE21 | 11       | 5.45          |
| (1,3955) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HE22 | 11       | 5.45          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H    | 1        | 5.45          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H    | 11       | 5.45          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H    | 5        | 5.45          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 2        | 5.45          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 2        | 5.45          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 2        | 5.45          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 15       | 5.45          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 15       | 5.45          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 15       | 5.45          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 1        | 5.45          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3  | 1        | 5.45          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3  | 7        | 5.45          |
| (1,3344) | 1:A:15:ARG:HB3  | 1:A:28:SER:H    | 15       | 5.45          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H    | 1        | 5.45          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H    | 20       | 5.45          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG   | 1        | 5.45          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 18       | 5.45          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 19       | 5.45          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H    | 3        | 5.45          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3  | 5        | 5.45          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3  | 6        | 5.45          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3  | 10       | 5.45          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2  | 15       | 5.45          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3  | 15       | 5.45          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 7        | 5.45          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 9        | 5.45          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 10       | 5.45          |
| (1,2396) | 1:A:9:PRO:HG3   | 1:A:24:GLY:HA2  | 5        | 5.45          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2  | 11       | 5.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H    | 14       | 5.45          |
| (1,1992) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HG   | 14       | 5.45          |
| (1,1992) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HG   | 14       | 5.45          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB2  | 2        | 5.45          |
| (1,1830) | 1:A:6:GLN:HE21  | 1:A:23:TYR:HB3  | 2        | 5.45          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA2  | 3        | 5.45          |
| (1,1748) | 1:A:6:GLN:HG3   | 1:A:13:GLY:HA3  | 3        | 5.45          |
| (1,1556) | 1:A:6:GLN:HA    | 1:A:14:CYS:HB2  | 1        | 5.45          |
| (1,1556) | 1:A:6:GLN:HA    | 1:A:14:CYS:HB2  | 8        | 5.45          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3  | 7        | 5.45          |
| (1,1516) | 1:A:6:GLN:H     | 1:A:18:LEU:HB3  | 20       | 5.45          |
| (1,1406) | 1:A:5:GLY:H     | 1:A:11:TRP:HD1  | 9        | 5.45          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA   | 2        | 5.45          |
| (1,1211) | 1:A:4:ASN:HB3   | 1:A:21:SER:HG   | 9        | 5.45          |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA   | 18       | 5.44          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA   | 18       | 5.44          |
| (1,845)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HH2  | 16       | 5.44          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD11 | 14       | 5.44          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD12 | 14       | 5.44          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD13 | 14       | 5.44          |
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2  | 3        | 5.44          |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2  | 3        | 5.44          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2  | 20       | 5.44          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2  | 20       | 5.44          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB2  | 16       | 5.44          |
| (1,521)  | 1:A:1:SER:HA    | 1:A:20:CYS:HB3  | 16       | 5.44          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H    | 19       | 5.44          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H    | 19       | 5.44          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3  | 1        | 5.44          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3  | 5        | 5.44          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 4        | 5.44          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1  | 8        | 5.44          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2  | 8        | 5.44          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3  | 8        | 5.44          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H    | 13       | 5.44          |
| (1,4695) | 1:A:27:GLY:HA2  | 1:A:31:LYS:H    | 16       | 5.44          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 6        | 5.44          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA   | 8        | 5.44          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 12       | 5.44          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 12       | 5.44          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 17       | 5.44          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 17       | 5.44          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 15       | 5.44          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H    | 11       | 5.44          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 12       | 5.44          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 9        | 5.44          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 9        | 5.44          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 20       | 5.44          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 7        | 5.44          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2  | 3        | 5.44          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3  | 3        | 5.44          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2  | 11       | 5.44          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3  | 11       | 5.44          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1  | 17       | 5.44          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2  | 17       | 5.44          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2  | 13       | 5.44          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE21 | 2        | 5.44          |
| (1,3889) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HE22 | 2        | 5.44          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 6        | 5.44          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 6        | 5.44          |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA   | 10       | 5.44          |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA   | 10       | 5.44          |
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA   | 10       | 5.44          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 4        | 5.44          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H    | 2        | 5.44          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H    | 3        | 5.44          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2  | 4        | 5.44          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3  | 4        | 5.44          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 9        | 5.44          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 9        | 5.44          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 1        | 5.44          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H    | 15       | 5.44          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H    | 13       | 5.44          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE   | 16       | 5.44          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 7        | 5.44          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H    | 2        | 5.44          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H    | 4        | 5.44          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H    | 9        | 5.44          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 4        | 5.44          |
| (1,2699) | 1:A:11:TRP:HB3  | 1:A:24:GLY:HA2  | 16       | 5.44          |
| (1,2676) | 1:A:11:TRP:HB3  | 1:A:14:CYS:H    | 9        | 5.44          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1  | 1        | 5.44          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2  | 1        | 5.44          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1  | 1        | 5.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2442) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HD2 | 1        | 5.44          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 11       | 5.44          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 11       | 5.44          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 8        | 5.44          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 8        | 5.44          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 15       | 5.44          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 15       | 5.44          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 5        | 5.44          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 5        | 5.44          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB2 | 10       | 5.44          |
| (1,1830) | 1:A:6:GLN:HE21 | 1:A:23:TYR:HB3 | 10       | 5.44          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 2        | 5.44          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 2        | 5.44          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 10       | 5.44          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 10       | 5.44          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 4        | 5.44          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 6        | 5.44          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 20       | 5.44          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 9        | 5.44          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 10       | 5.44          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 18       | 5.44          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 18       | 5.44          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 19       | 5.44          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 19       | 5.44          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA  | 13       | 5.44          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 19       | 5.44          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 3        | 5.44          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 7        | 5.43          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 11       | 5.43          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 1        | 5.43          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 1        | 5.43          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 18       | 5.43          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 18       | 5.43          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 5        | 5.43          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 5        | 5.43          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 12       | 5.43          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 12       | 5.43          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 17       | 5.43          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 17       | 5.43          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 18       | 5.43          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 18       | 5.43          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 9        | 5.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 9        | 5.43          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 9        | 5.43          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 15       | 5.43          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 17       | 5.43          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 15       | 5.43          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 12       | 5.43          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 12       | 5.43          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 2        | 5.43          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 2        | 5.43          |
| (1,4485) | 1:A:24:GLY:HA2  | 1:A:35:HIS:HB2 | 1        | 5.43          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 11       | 5.43          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 11       | 5.43          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 11       | 5.43          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 11       | 5.43          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 3        | 5.43          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 3        | 5.43          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 3        | 5.43          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 3        | 5.43          |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 10       | 5.43          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 16       | 5.43          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA  | 2        | 5.43          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 5        | 5.43          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 5        | 5.43          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 18       | 5.43          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 18       | 5.43          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 7        | 5.43          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 7        | 5.43          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 12       | 5.43          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 14       | 5.43          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 1        | 5.43          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 11       | 5.43          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 16       | 5.43          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 18       | 5.43          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 19       | 5.43          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H   | 20       | 5.43          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 20       | 5.43          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 20       | 5.43          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 11       | 5.43          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 3        | 5.43          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 10       | 5.43          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 4        | 5.43          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 15       | 5.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2 | 2        | 5.43          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3 | 2        | 5.43          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2 | 3        | 5.43          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3 | 3        | 5.43          |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2 | 8        | 5.43          |
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2 | 3        | 5.43          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H   | 10       | 5.43          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3 | 14       | 5.43          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3 | 14       | 5.43          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2 | 2        | 5.43          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 3        | 5.43          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 3        | 5.43          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 3        | 5.43          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 3        | 5.43          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 13       | 5.43          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 13       | 5.43          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA  | 4        | 5.43          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA  | 5        | 5.43          |
| (1,1948) | 1:A:7:CYS:H    | 1:A:22:GLN:HA  | 14       | 5.43          |
| (1,1928) | 1:A:7:CYS:H    | 1:A:11:TRP:HH2 | 17       | 5.43          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 17       | 5.43          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 5        | 5.43          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 5        | 5.43          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA2 | 6        | 5.43          |
| (1,1748) | 1:A:6:GLN:HG3  | 1:A:13:GLY:HA3 | 6        | 5.43          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 4        | 5.43          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 7        | 5.43          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 8        | 5.43          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 9        | 5.43          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 13       | 5.43          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 15       | 5.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 1        | 5.43          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 1        | 5.43          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 16       | 5.43          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 2        | 5.43          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 7        | 5.42          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 7        | 5.42          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 8        | 5.42          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 9        | 5.42          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 14       | 5.42          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 14       | 5.42          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 6        | 5.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 6        | 5.42          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1  | 16       | 5.42          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1  | 16       | 5.42          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 11       | 5.42          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1  | 13       | 5.42          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2  | 13       | 5.42          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3  | 13       | 5.42          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 8        | 5.42          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 18       | 5.42          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 19       | 5.42          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 3        | 5.42          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 3        | 5.42          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG2  | 19       | 5.42          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG2  | 19       | 5.42          |
| (1,4571) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HG3  | 19       | 5.42          |
| (1,4571) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HG3  | 19       | 5.42          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA   | 3        | 5.42          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 17       | 5.42          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 17       | 5.42          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2  | 9        | 5.42          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3  | 9        | 5.42          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 18       | 5.42          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 18       | 5.42          |
| (1,3954) | 1:A:20:CYS:HB2 | 1:A:22:GLN:HG3  | 20       | 5.42          |
| (1,3894) | 1:A:19:CYS:HB3 | 1:A:24:GLY:H    | 9        | 5.42          |
| (1,3865) | 1:A:19:CYS:HA  | 1:A:35:HIS:H    | 15       | 5.42          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 8        | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1  | 9        | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2  | 9        | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1  | 16       | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2  | 16       | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1  | 18       | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2  | 18       | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD1  | 19       | 5.42          |
| (1,3830) | 1:A:19:CYS:H   | 1:A:25:TYR:HD2  | 19       | 5.42          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H    | 2        | 5.42          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H    | 13       | 5.42          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3  | 13       | 5.42          |
| (1,3660) | 1:A:18:LEU:H   | 1:A:33:CYS:H    | 15       | 5.42          |
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2  | 13       | 5.42          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2  | 8        | 5.42          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3  | 8        | 5.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 2        | 5.42          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 4        | 5.42          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2  | 10       | 5.42          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3  | 10       | 5.42          |
| (1,3378) | 1:A:15:ARG:HG2 | 1:A:27:GLY:HA2  | 1        | 5.42          |
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2  | 1        | 5.42          |
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2  | 5        | 5.42          |
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2  | 6        | 5.42          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H    | 15       | 5.42          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H    | 20       | 5.42          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3  | 1        | 5.42          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG2  | 9        | 5.42          |
| (1,2987) | 1:A:12:GLY:H   | 1:A:15:ARG:HG3  | 9        | 5.42          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2  | 14       | 5.42          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3  | 14       | 5.42          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 5        | 5.42          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 6        | 5.42          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 12       | 5.42          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA   | 16       | 5.42          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 20       | 5.42          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 20       | 5.42          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG   | 6        | 5.42          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 8        | 5.42          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 5        | 5.42          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 6        | 5.42          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 11       | 5.42          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2  | 4        | 5.42          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3  | 16       | 5.42          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2  | 4        | 5.42          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1  | 17       | 5.41          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2  | 17       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 9        | 5.41          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 9        | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD11 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD12 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD13 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD11 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD12 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD13 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD21 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD22 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG2  | 1:A:18:LEU:HD23 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD21 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD22 | 20       | 5.41          |
| (1,915)  | 1:A:3:PRO:HG3  | 1:A:18:LEU:HD23 | 20       | 5.41          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2  | 20       | 5.41          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 7        | 5.41          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD3  | 7        | 5.41          |
| (1,616)  | 1:A:2:GLY:H    | 1:A:14:CYS:H    | 17       | 5.41          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 3        | 5.41          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 3        | 5.41          |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H    | 20       | 5.41          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H    | 20       | 5.41          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2  | 14       | 5.41          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3  | 14       | 5.41          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 9        | 5.41          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 9        | 5.41          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 11       | 5.41          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 11       | 5.41          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA   | 17       | 5.41          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2  | 14       | 5.41          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3  | 14       | 5.41          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 12       | 5.41          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H    | 18       | 5.41          |
| (1,4695) | 1:A:27:GLY:HA2 | 1:A:31:LYS:H    | 20       | 5.41          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE2  | 18       | 5.41          |
| (1,4594) | 1:A:25:TYR:HE1 | 1:A:31:LYS:HE3  | 18       | 5.41          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE2  | 18       | 5.41          |
| (1,4594) | 1:A:25:TYR:HE2 | 1:A:31:LYS:HE3  | 18       | 5.41          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 6        | 5.41          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 6        | 5.41          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA   | 6        | 5.41          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 18       | 5.41          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 18       | 5.41          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1  | 19       | 5.41          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2  | 19       | 5.41          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1  | 20       | 5.41          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2  | 20       | 5.41          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 18       | 5.41          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 18       | 5.41          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 12       | 5.41          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 12       | 5.41          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H    | 1        | 5.41          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 19       | 5.41          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1  | 5        | 5.41          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H    | 11       | 5.41          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 15       | 5.41          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 9        | 5.41          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 9        | 5.41          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 15       | 5.41          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 15       | 5.41          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H    | 20       | 5.41          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 17       | 5.41          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2  | 12       | 5.41          |
| (1,3894) | 1:A:19:CYS:HB3  | 1:A:24:GLY:H    | 7        | 5.41          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 4        | 5.41          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 4        | 5.41          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 4        | 5.41          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 16       | 5.41          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 16       | 5.41          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 16       | 5.41          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 10       | 5.41          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3  | 14       | 5.41          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H    | 15       | 5.41          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H    | 15       | 5.41          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 1        | 5.41          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H    | 11       | 5.41          |
| (1,2748) | 1:A:11:TRP:HD1  | 1:A:25:TYR:H    | 17       | 5.41          |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG2  | 20       | 5.41          |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG3  | 20       | 5.41          |
| (1,1970) | 1:A:7:CYS:H     | 1:A:32:TYR:HD1  | 7        | 5.41          |
| (1,1970) | 1:A:7:CYS:H     | 1:A:32:TYR:HD2  | 7        | 5.41          |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD1  | 12       | 5.41          |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD2  | 12       | 5.41          |
| (1,1948) | 1:A:7:CYS:H     | 1:A:22:GLN:HA   | 3        | 5.41          |
| (1,1948) | 1:A:7:CYS:H     | 1:A:22:GLN:HA   | 6        | 5.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 7        | 5.41          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 9        | 5.41          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 18       | 5.41          |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 19       | 5.41          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 13       | 5.41          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 13       | 5.41          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 12       | 5.41          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 2        | 5.41          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 4        | 5.41          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 10       | 5.41          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 11       | 5.41          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 3        | 5.41          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 11       | 5.41          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 7        | 5.41          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 7        | 5.41          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 18       | 5.41          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA  | 12       | 5.41          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 18       | 5.41          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 14       | 5.41          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 6        | 5.41          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 10       | 5.41          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 17       | 5.4           |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 17       | 5.4           |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 3        | 5.4           |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 3        | 5.4           |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 4        | 5.4           |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 4        | 5.4           |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 20       | 5.4           |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 20       | 5.4           |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 8        | 5.4           |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 8        | 5.4           |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 8        | 5.4           |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 8        | 5.4           |
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 7        | 5.4           |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 7        | 5.4           |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 6        | 5.4           |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 6        | 5.4           |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE  | 7        | 5.4           |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 3        | 5.4           |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 3        | 5.4           |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 15       | 5.4           |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 15       | 5.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA  | 15       | 5.4           |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 14       | 5.4           |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 19       | 5.4           |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 20       | 5.4           |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 13       | 5.4           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 9        | 5.4           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 11       | 5.4           |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 14       | 5.4           |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 16       | 5.4           |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 16       | 5.4           |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 3        | 5.4           |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 12       | 5.4           |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 5        | 5.4           |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 8        | 5.4           |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 13       | 5.4           |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 11       | 5.4           |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 11       | 5.4           |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 1        | 5.4           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 13       | 5.4           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 13       | 5.4           |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 1        | 5.4           |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 1        | 5.4           |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 2        | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 3        | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 5        | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 6        | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 8        | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 16       | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 18       | 5.4           |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 19       | 5.4           |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 15       | 5.4           |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 3        | 5.4           |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 12       | 5.4           |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 12       | 5.4           |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 3        | 5.4           |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 6        | 5.4           |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 3        | 5.4           |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 11       | 5.4           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 1        | 5.4           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 1        | 5.4           |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 7        | 5.4           |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 7        | 5.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 12       | 5.4           |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 11       | 5.4           |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H   | 12       | 5.4           |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H   | 18       | 5.4           |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H   | 19       | 5.4           |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 6        | 5.4           |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 6        | 5.4           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 18       | 5.4           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 18       | 5.4           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 20       | 5.4           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 20       | 5.4           |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2 | 3        | 5.4           |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 10       | 5.4           |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 17       | 5.4           |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 17       | 5.4           |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 17       | 5.4           |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 17       | 5.4           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 2        | 5.4           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 2        | 5.4           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 12       | 5.4           |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 12       | 5.4           |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 2        | 5.4           |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 2        | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 4        | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 4        | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 8        | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 8        | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 17       | 5.4           |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 17       | 5.4           |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 8        | 5.4           |
| (1,1940) | 1:A:7:CYS:H    | 1:A:19:CYS:HA  | 20       | 5.4           |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 18       | 5.4           |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 6        | 5.4           |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 17       | 5.4           |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 1        | 5.4           |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 3        | 5.4           |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 5        | 5.4           |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 6        | 5.4           |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 4        | 5.4           |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 10       | 5.4           |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 19       | 5.4           |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 12       | 5.4           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2  | 5        | 5.4           |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD11 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD12 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD13 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD11 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD12 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD13 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD21 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD22 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG2   | 1:A:18:LEU:HD23 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD21 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD22 | 7        | 5.39          |
| (1,915)  | 1:A:3:PRO:HG3   | 1:A:18:LEU:HD23 | 7        | 5.39          |
| (1,845)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HH2  | 19       | 5.39          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD1  | 6        | 5.39          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD2  | 6        | 5.39          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD2  | 19       | 5.39          |
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3  | 19       | 5.39          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3  | 14       | 5.39          |
| (1,562)  | 1:A:1:SER:HB2   | 1:A:21:SER:H    | 3        | 5.39          |
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H    | 3        | 5.39          |
| (1,560)  | 1:A:1:SER:HB2   | 1:A:19:CYS:H    | 2        | 5.39          |
| (1,560)  | 1:A:1:SER:HB3   | 1:A:19:CYS:H    | 2        | 5.39          |
| (1,555)  | 1:A:1:SER:HB2   | 1:A:16:GLY:H    | 11       | 5.39          |
| (1,555)  | 1:A:1:SER:HB3   | 1:A:16:GLY:H    | 11       | 5.39          |
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2  | 13       | 5.39          |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2  | 13       | 5.39          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H    | 20       | 5.39          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H    | 20       | 5.39          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 8        | 5.39          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA   | 1        | 5.39          |
| (1,4720) | 1:A:27:GLY:HA3  | 1:A:35:HIS:HB2  | 20       | 5.39          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ1  | 8        | 5.39          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ2  | 8        | 5.39          |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ3  | 8        | 5.39          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA   | 13       | 5.39          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA   | 17       | 5.39          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 13       | 5.39          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 13       | 5.39          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 5        | 5.39          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 5        | 5.39          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3  | 9        | 5.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 18       | 5.39          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 11       | 5.39          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 7        | 5.39          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 2        | 5.39          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 4        | 5.39          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 14       | 5.39          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 4        | 5.39          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 4        | 5.39          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 12       | 5.39          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD1 | 7        | 5.39          |
| (1,3830) | 1:A:19:CYS:H    | 1:A:25:TYR:HD2 | 7        | 5.39          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 6        | 5.39          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 6        | 5.39          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 6        | 5.39          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 20       | 5.39          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 20       | 5.39          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 20       | 5.39          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 16       | 5.39          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 20       | 5.39          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 4        | 5.39          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 19       | 5.39          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 19       | 5.39          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H   | 13       | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 1        | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 1        | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 9        | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 9        | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 12       | 5.39          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 12       | 5.39          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 14       | 5.39          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 7        | 5.39          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 16       | 5.39          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 11       | 5.39          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB2 | 4        | 5.39          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB3 | 4        | 5.39          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB2 | 5        | 5.39          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB3 | 5        | 5.39          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2 | 1        | 5.39          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H   | 2        | 5.39          |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG2 | 8        | 5.39          |
| (1,2031) | 1:A:8:GLY:H     | 1:A:15:ARG:HG3 | 8        | 5.39          |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE1 | 6        | 5.39          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 6        | 5.39          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 6        | 5.39          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 6        | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 5        | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 5        | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 10       | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 10       | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 14       | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 14       | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 17       | 5.39          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 17       | 5.39          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 15       | 5.39          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 15       | 5.39          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 18       | 5.39          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 18       | 5.39          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 3        | 5.39          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 5        | 5.39          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 10       | 5.39          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 9        | 5.39          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 3        | 5.39          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 7        | 5.39          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 3        | 5.39          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 14       | 5.39          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 13       | 5.39          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 8        | 5.38          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 8        | 5.38          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 18       | 5.38          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 16       | 5.38          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 16       | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 7        | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 7        | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 18       | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 18       | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 19       | 5.38          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 19       | 5.38          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 17       | 5.38          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 17       | 5.38          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 10       | 5.38          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 10       | 5.38          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1 | 16       | 5.38          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2 | 16       | 5.38          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 17       | 5.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 11       | 5.38          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 11       | 5.38          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2 | 6        | 5.38          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 1        | 5.38          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 12       | 5.38          |
| (1,4408) | 1:A:23:TYR:HD1  | 1:A:32:TYR:H   | 2        | 5.38          |
| (1,4408) | 1:A:23:TYR:HD2  | 1:A:32:TYR:H   | 2        | 5.38          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 13       | 5.38          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 13       | 5.38          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 1        | 5.38          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 13       | 5.38          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 13       | 5.38          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 9        | 5.38          |
| (1,4041) | 1:A:21:SER:H    | 1:A:34:ALA:H   | 16       | 5.38          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 17       | 5.38          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 17       | 5.38          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 4        | 5.38          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 6        | 5.38          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 2        | 5.38          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 14       | 5.38          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 3        | 5.38          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 3        | 5.38          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 19       | 5.38          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 19       | 5.38          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 19       | 5.38          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 9        | 5.38          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 19       | 5.38          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 2        | 5.38          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 6        | 5.38          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 1        | 5.38          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 15       | 5.38          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 15       | 5.38          |
| (1,3374) | 1:A:15:ARG:HG2  | 1:A:26:CYS:H   | 16       | 5.38          |
| (1,3374) | 1:A:15:ARG:HG3  | 1:A:26:CYS:H   | 16       | 5.38          |
| (1,3345) | 1:A:15:ARG:HB3  | 1:A:28:SER:HB2 | 13       | 5.38          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H   | 14       | 5.38          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H   | 14       | 5.38          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 2        | 5.38          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 4        | 5.38          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 18       | 5.38          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H   | 19       | 5.38          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 8        | 5.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 2        | 5.38          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 2        | 5.38          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB2 | 17       | 5.38          |
| (1,3016) | 1:A:12:GLY:H   | 1:A:26:CYS:HB3 | 17       | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 2        | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 2        | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 3        | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 3        | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 10       | 5.38          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 10       | 5.38          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 12       | 5.38          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 12       | 5.38          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 19       | 5.38          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 19       | 5.38          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 14       | 5.38          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 14       | 5.38          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 16       | 5.38          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 16       | 5.38          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 18       | 5.38          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 18       | 5.38          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 4        | 5.38          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 4        | 5.38          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 9        | 5.38          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 9        | 5.38          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 6        | 5.38          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 6        | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 6        | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 6        | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 9        | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 9        | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 19       | 5.38          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 19       | 5.38          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 13       | 5.38          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 4        | 5.38          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 3        | 5.38          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 5        | 5.38          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 10       | 5.38          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 12       | 5.38          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 14       | 5.38          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 15       | 5.38          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 2        | 5.38          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 10       | 5.38          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1406) | 1:A:5:GLY:H     | 1:A:11:TRP:HD1  | 13       | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD11 | 2        | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD12 | 2        | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD13 | 2        | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 2        | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 2        | 5.38          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 2        | 5.38          |
| (1,1129) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE1  | 15       | 5.38          |
| (1,1129) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE1  | 17       | 5.38          |
| (1,896)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HA   | 16       | 5.37          |
| (1,896)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HA   | 16       | 5.37          |
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB2  | 11       | 5.37          |
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB3  | 11       | 5.37          |
| (1,573)  | 1:A:1:SER:HB2   | 1:A:25:TYR:H    | 15       | 5.37          |
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H    | 15       | 5.37          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 5        | 5.37          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 5        | 5.37          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3  | 9        | 5.37          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3  | 9        | 5.37          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 18       | 5.37          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3  | 9        | 5.37          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 8        | 5.37          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2  | 4        | 5.37          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3  | 4        | 5.37          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3  | 6        | 5.37          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 1        | 5.37          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 3        | 5.37          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 11       | 5.37          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA   | 8        | 5.37          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 17       | 5.37          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2  | 12       | 5.37          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2  | 12       | 5.37          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3  | 12       | 5.37          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3  | 12       | 5.37          |
| (1,4404) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HA   | 2        | 5.37          |
| (1,4404) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HA   | 2        | 5.37          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2  | 18       | 5.37          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3  | 18       | 5.37          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1  | 9        | 5.37          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 5        | 5.37          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 13       | 5.37          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 6        | 5.37          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 14       | 5.37          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 7        | 5.37          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 7        | 5.37          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 15       | 5.37          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 15       | 5.37          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 5        | 5.37          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 5        | 5.37          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 5        | 5.37          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 18       | 5.37          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 18       | 5.37          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 18       | 5.37          |
| (1,3790) | 1:A:18:LEU:HD11 | 1:A:33:CYS:H    | 14       | 5.37          |
| (1,3790) | 1:A:18:LEU:HD12 | 1:A:33:CYS:H    | 14       | 5.37          |
| (1,3790) | 1:A:18:LEU:HD13 | 1:A:33:CYS:H    | 14       | 5.37          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2  | 1        | 5.37          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2  | 18       | 5.37          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 5        | 5.37          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3  | 10       | 5.37          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 3        | 5.37          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 10       | 5.37          |
| (1,3212) | 1:A:14:CYS:HB2  | 1:A:29:GLY:H    | 16       | 5.37          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H    | 9        | 5.37          |
| (1,2372) | 1:A:9:PRO:HG3   | 1:A:13:GLY:HA2  | 13       | 5.37          |
| (1,2331) | 1:A:9:PRO:HG2   | 1:A:24:GLY:HA2  | 10       | 5.37          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H    | 4        | 5.37          |
| (1,2084) | 1:A:8:GLY:HA2   | 1:A:21:SER:H    | 5        | 5.37          |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE1  | 14       | 5.37          |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE2  | 14       | 5.37          |
| (1,2016) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HE1  | 14       | 5.37          |
| (1,2016) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HE2  | 14       | 5.37          |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H    | 16       | 5.37          |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H    | 16       | 5.37          |
| (1,1970) | 1:A:7:CYS:H     | 1:A:32:TYR:HD1  | 8        | 5.37          |
| (1,1970) | 1:A:7:CYS:H     | 1:A:32:TYR:HD2  | 8        | 5.37          |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD1  | 3        | 5.37          |
| (1,1954) | 1:A:7:CYS:H     | 1:A:23:TYR:HD2  | 3        | 5.37          |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H    | 17       | 5.37          |
| (1,1759) | 1:A:6:GLN:HG3   | 1:A:21:SER:HB2  | 9        | 5.37          |
| (1,1759) | 1:A:6:GLN:HG3   | 1:A:21:SER:HB3  | 9        | 5.37          |
| (1,1745) | 1:A:6:GLN:HG3   | 1:A:12:GLY:H    | 17       | 5.37          |
| (1,1719) | 1:A:6:GLN:HG2   | 1:A:24:GLY:H    | 8        | 5.37          |
| (1,1646) | 1:A:6:GLN:HB3   | 1:A:21:SER:HG   | 2        | 5.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG   | 14       | 5.37          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H    | 2        | 5.37          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H    | 4        | 5.37          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA    | 8        | 5.37          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA    | 16       | 5.37          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA    | 20       | 5.37          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 5        | 5.37          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 18       | 5.37          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2  | 20       | 5.37          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 5        | 5.37          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 16       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 6        | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 10       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 10       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 10       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 10       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 10       | 5.37          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 10       | 5.37          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1  | 13       | 5.37          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA   | 15       | 5.36          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA   | 15       | 5.36          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 20       | 5.36          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 20       | 5.36          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 11       | 5.36          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 11       | 5.36          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 1        | 5.36          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 1        | 5.36          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2  | 13       | 5.36          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3  | 13       | 5.36          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H    | 6        | 5.36          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H    | 6        | 5.36          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 15       | 5.36          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H    | 6        | 5.36          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA   | 2        | 5.36          |
| (1,4552) | 1:A:25:TYR:HB3 | 1:A:32:TYR:HA   | 15       | 5.36          |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3  | 2        | 5.36          |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3  | 5        | 5.36          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4433) | 1:A:23:TYR:HE1  | 1:A:32:TYR:H    | 14       | 5.36          |
| (1,4433) | 1:A:23:TYR:HE2  | 1:A:32:TYR:H    | 14       | 5.36          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 13       | 5.36          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 3        | 5.36          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 3        | 5.36          |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H    | 8        | 5.36          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 2        | 5.36          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 7        | 5.36          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H    | 9        | 5.36          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H    | 20       | 5.36          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 15       | 5.36          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 15       | 5.36          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 14       | 5.36          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 14       | 5.36          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H    | 14       | 5.36          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2  | 5        | 5.36          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3  | 5        | 5.36          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2  | 13       | 5.36          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3  | 13       | 5.36          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 14       | 5.36          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 14       | 5.36          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H    | 15       | 5.36          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2  | 8        | 5.36          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2  | 4        | 5.36          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3  | 4        | 5.36          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2  | 6        | 5.36          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3  | 6        | 5.36          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H    | 17       | 5.36          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H    | 17       | 5.36          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H    | 17       | 5.36          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2  | 7        | 5.36          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3  | 15       | 5.36          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 11       | 5.36          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 11       | 5.36          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2  | 20       | 5.36          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3  | 20       | 5.36          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG   | 3        | 5.36          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA   | 7        | 5.36          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA   | 7        | 5.36          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H    | 1        | 5.36          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H    | 11       | 5.36          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1  | 7        | 5.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 7        | 5.36          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 8        | 5.36          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 8        | 5.36          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H   | 20       | 5.36          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H   | 5        | 5.36          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 6        | 5.36          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 6        | 5.36          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 8        | 5.36          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 8        | 5.36          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 4        | 5.36          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 7        | 5.36          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 1        | 5.36          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 1        | 5.36          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 1        | 5.36          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 1        | 5.36          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 3        | 5.36          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 3        | 5.36          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 4        | 5.36          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 4        | 5.36          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 7        | 5.36          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 7        | 5.36          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 16       | 5.36          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 16       | 5.36          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 18       | 5.36          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 18       | 5.36          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 6        | 5.36          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 6        | 5.36          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 9        | 5.36          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 20       | 5.36          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 12       | 5.36          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 7        | 5.36          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 16       | 5.36          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 19       | 5.36          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 6        | 5.36          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 20       | 5.36          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 3        | 5.36          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 12       | 5.35          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 12       | 5.35          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 15       | 5.35          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 15       | 5.35          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 14       | 5.35          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 14       | 5.35          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4906) | 1:A:31:LYS:HE2  | 1:A:35:HIS:H   | 3        | 5.35          |
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H   | 3        | 5.35          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD2 | 18       | 5.35          |
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 18       | 5.35          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2 | 2        | 5.35          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2 | 2        | 5.35          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3 | 2        | 5.35          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3 | 2        | 5.35          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2 | 14       | 5.35          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3 | 14       | 5.35          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 10       | 5.35          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 3        | 5.35          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 3        | 5.35          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 6        | 5.35          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 6        | 5.35          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 6        | 5.35          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 12       | 5.35          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 12       | 5.35          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 4        | 5.35          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 4        | 5.35          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 4        | 5.35          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 16       | 5.35          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 16       | 5.35          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1 | 1        | 5.35          |
| (1,4209) | 1:A:22:GLN:HB2  | 1:A:34:ALA:HA  | 7        | 5.35          |
| (1,4201) | 1:A:22:GLN:HB2  | 1:A:33:CYS:H   | 4        | 5.35          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 3        | 5.35          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 3        | 5.35          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 1        | 5.35          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 9        | 5.35          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 9        | 5.35          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 13       | 5.35          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 9        | 5.35          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 16       | 5.35          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 5        | 5.35          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 10       | 5.35          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 5        | 5.35          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 1        | 5.35          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 1        | 5.35          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 20       | 5.35          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 20       | 5.35          |
| (1,3260) | 1:A:15:ARG:H    | 1:A:21:SER:H   | 13       | 5.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 14       | 5.35          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 14       | 5.35          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 15       | 5.35          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 15       | 5.35          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 1        | 5.35          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 15       | 5.35          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 18       | 5.35          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 19       | 5.35          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 20       | 5.35          |
| (1,3151) | 1:A:13:GLY:HA3 | 1:A:21:SER:H   | 6        | 5.35          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 12       | 5.35          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 4        | 5.35          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 4        | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 7        | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 7        | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 16       | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 16       | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 18       | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 18       | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 19       | 5.35          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 19       | 5.35          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 16       | 5.35          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 16       | 5.35          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 2        | 5.35          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 16       | 5.35          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 16       | 5.35          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 16       | 5.35          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 18       | 5.35          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 19       | 5.35          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 3        | 5.35          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 13       | 5.35          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 15       | 5.35          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 9        | 5.35          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 9        | 5.35          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 9        | 5.35          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 9        | 5.35          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 11       | 5.35          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 11       | 5.35          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 11       | 5.35          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 11       | 5.35          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 7        | 5.35          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 7        | 5.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 19       | 5.35          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 19       | 5.35          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 15       | 5.35          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 15       | 5.35          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 5        | 5.35          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 5        | 5.35          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 10       | 5.35          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 10       | 5.35          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 7        | 5.35          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 7        | 5.35          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 19       | 5.35          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 19       | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 2        | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 2        | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 5        | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 5        | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 10       | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 10       | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 16       | 5.35          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 16       | 5.35          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 4        | 5.35          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 4        | 5.35          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 12       | 5.35          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 12       | 5.35          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 11       | 5.35          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 19       | 5.35          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 14       | 5.35          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 18       | 5.35          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 19       | 5.35          |
| (1,1485) | 1:A:5:GLY:HA3  | 1:A:20:CYS:HB2 | 7        | 5.35          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 9        | 5.35          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 9        | 5.35          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 2        | 5.35          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 12       | 5.35          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 12       | 5.35          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 18       | 5.35          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 18       | 5.34          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 18       | 5.34          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 8        | 5.34          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 8        | 5.34          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 6        | 5.34          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 6        | 5.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2 | 5        | 5.34          |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2 | 5        | 5.34          |
| (1,550)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ2 | 19       | 5.34          |
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2 | 19       | 5.34          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2 | 19       | 5.34          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3 | 19       | 5.34          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA  | 4        | 5.34          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 16       | 5.34          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 16       | 5.34          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 15       | 5.34          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 15       | 5.34          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1 | 20       | 5.34          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2 | 20       | 5.34          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 20       | 5.34          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 17       | 5.34          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 9        | 5.34          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 9        | 5.34          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 9        | 5.34          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 9        | 5.34          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 1        | 5.34          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 1        | 5.34          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 12       | 5.34          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 12       | 5.34          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 12       | 5.34          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 12       | 5.34          |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H   | 1        | 5.34          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 5        | 5.34          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 3        | 5.34          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 3        | 5.34          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 7        | 5.34          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 20       | 5.34          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 2        | 5.34          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 17       | 5.34          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2 | 10       | 5.34          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3 | 10       | 5.34          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 3        | 5.34          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 5        | 5.34          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 6        | 5.34          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 14       | 5.34          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 14       | 5.34          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 16       | 5.34          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 16       | 5.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H   | 8        | 5.34          |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H   | 8        | 5.34          |
| (1,3248) | 1:A:14:CYS:HB3 | 1:A:29:GLY:H   | 18       | 5.34          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 16       | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 8        | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 8        | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 9        | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 9        | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 12       | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 12       | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 20       | 5.34          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 20       | 5.34          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 14       | 5.34          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 14       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 7        | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 7        | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 9        | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 9        | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 16       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 16       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 18       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 18       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 19       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 19       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 20       | 5.34          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 20       | 5.34          |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2 | 14       | 5.34          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 10       | 5.34          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 10       | 5.34          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 5        | 5.34          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 6        | 5.34          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 9        | 5.34          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 9        | 5.34          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 20       | 5.34          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 6        | 5.34          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 9        | 5.34          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 9        | 5.34          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 8        | 5.34          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 8        | 5.34          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 8        | 5.34          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 8        | 5.34          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 15       | 5.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 15       | 5.34          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 15       | 5.34          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 15       | 5.34          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 12       | 5.34          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 12       | 5.34          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 18       | 5.34          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 18       | 5.34          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 16       | 5.34          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 16       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 7        | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 7        | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 8        | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 8        | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 12       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 12       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 18       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 18       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 19       | 5.34          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 19       | 5.34          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 13       | 5.34          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 13       | 5.34          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 17       | 5.34          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 8        | 5.34          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 8        | 5.34          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 12       | 5.34          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB2 | 15       | 5.34          |
| (1,1329) | 1:A:4:ASN:HD22 | 1:A:11:TRP:HB3 | 15       | 5.34          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 8        | 5.34          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 6        | 5.34          |
| (1,1129) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE1 | 9        | 5.34          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 14       | 5.34          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 12       | 5.33          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 12       | 5.33          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 17       | 5.33          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 17       | 5.33          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 9        | 5.33          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 9        | 5.33          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 16       | 5.33          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 16       | 5.33          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 10       | 5.33          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 10       | 5.33          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 7        | 5.33          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,550)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ2 | 7        | 5.33          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 12       | 5.33          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 15       | 5.33          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 9        | 5.33          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 14       | 5.33          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 14       | 5.33          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 14       | 5.33          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 19       | 5.33          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 19       | 5.33          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 14       | 5.33          |
| (1,4710) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HA  | 16       | 5.33          |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 10       | 5.33          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 10       | 5.33          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 10       | 5.33          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 5        | 5.33          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 5        | 5.33          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 10       | 5.33          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 10       | 5.33          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 12       | 5.33          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 1        | 5.33          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 2        | 5.33          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 13       | 5.33          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 9        | 5.33          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 14       | 5.33          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H   | 3        | 5.33          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 7        | 5.33          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 18       | 5.33          |
| (1,3895) | 1:A:19:CYS:HB3  | 1:A:24:GLY:HA2 | 19       | 5.33          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 16       | 5.33          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 14       | 5.33          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 15       | 5.33          |
| (1,3407) | 1:A:15:ARG:HD2  | 1:A:28:SER:H   | 1        | 5.33          |
| (1,3407) | 1:A:15:ARG:HD3  | 1:A:28:SER:H   | 1        | 5.33          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE1 | 11       | 5.33          |
| (1,3254) | 1:A:14:CYS:HB3  | 1:A:32:TYR:HE2 | 11       | 5.33          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 19       | 5.33          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H   | 13       | 5.33          |
| (1,3206) | 1:A:14:CYS:HB2  | 1:A:25:TYR:H   | 7        | 5.33          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 15       | 5.33          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB2 | 17       | 5.33          |
| (1,2592) | 1:A:11:TRP:H    | 1:A:20:CYS:HB3 | 17       | 5.33          |
| (1,2056) | 1:A:8:GLY:H     | 1:A:25:TYR:H   | 1        | 5.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 11       | 5.33          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 7        | 5.33          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 7        | 5.33          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 7        | 5.33          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 7        | 5.33          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 12       | 5.33          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 12       | 5.33          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 12       | 5.33          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 12       | 5.33          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 2        | 5.33          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 2        | 5.33          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 1        | 5.33          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 1        | 5.33          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 3        | 5.33          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 3        | 5.33          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 20       | 5.33          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 20       | 5.33          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 14       | 5.33          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 14       | 5.33          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 1        | 5.33          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 9        | 5.33          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 9        | 5.33          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 12       | 5.33          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 12       | 5.33          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 1        | 5.33          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 11       | 5.33          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 17       | 5.33          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 19       | 5.33          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 5        | 5.33          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 6        | 5.33          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 11       | 5.32          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 11       | 5.32          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 19       | 5.32          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 19       | 5.32          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 2        | 5.32          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 2        | 5.32          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1 | 18       | 5.32          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2 | 18       | 5.32          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2 | 7        | 5.32          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3 | 7        | 5.32          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 15       | 5.32          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 15       | 5.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4910) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:HB2 | 15       | 5.32          |
| (1,4836) | 1:A:30:PRO:HD2  | 1:A:35:HIS:HD2 | 4        | 5.32          |
| (1,4790) | 1:A:29:GLY:HA3  | 1:A:35:HIS:HB2 | 19       | 5.32          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 10       | 5.32          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 10       | 5.32          |
| (1,4716) | 1:A:27:GLY:HA3  | 1:A:34:ALA:H   | 7        | 5.32          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 5        | 5.32          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 11       | 5.32          |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 4        | 5.32          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 17       | 5.32          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 17       | 5.32          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 12       | 5.32          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 12       | 5.32          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 4        | 5.32          |
| (1,4121) | 1:A:22:GLN:H    | 1:A:31:LYS:H   | 15       | 5.32          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 19       | 5.32          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 9        | 5.32          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 9        | 5.32          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 19       | 5.32          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD1 | 2        | 5.32          |
| (1,3987) | 1:A:20:CYS:HB3  | 1:A:23:TYR:HD2 | 2        | 5.32          |
| (1,3929) | 1:A:20:CYS:H    | 1:A:28:SER:H   | 17       | 5.32          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H   | 4        | 5.32          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H   | 6        | 5.32          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 1        | 5.32          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 11       | 5.32          |
| (1,3781) | 1:A:18:LEU:HD11 | 1:A:29:GLY:HA3 | 14       | 5.32          |
| (1,3781) | 1:A:18:LEU:HD12 | 1:A:29:GLY:HA3 | 14       | 5.32          |
| (1,3781) | 1:A:18:LEU:HD13 | 1:A:29:GLY:HA3 | 14       | 5.32          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 12       | 5.32          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 15       | 5.32          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2 | 15       | 5.32          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 14       | 5.32          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 14       | 5.32          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 7        | 5.32          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 12       | 5.32          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 12       | 5.32          |
| (1,3305) | 1:A:15:ARG:HB2  | 1:A:26:CYS:H   | 15       | 5.32          |
| (1,3248) | 1:A:14:CYS:HB3  | 1:A:29:GLY:H   | 16       | 5.32          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 13       | 5.32          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 12       | 5.32          |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H   | 14       | 5.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 17       | 5.32          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 17       | 5.32          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 8        | 5.32          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 9        | 5.32          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2 | 12       | 5.32          |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3 | 12       | 5.32          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 3        | 5.32          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 3        | 5.32          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 4        | 5.32          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 4        | 5.32          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 10       | 5.32          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 10       | 5.32          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 8        | 5.32          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 8        | 5.32          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 20       | 5.32          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 20       | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 1        | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 1        | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 11       | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 11       | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD1 | 13       | 5.32          |
| (1,1970) | 1:A:7:CYS:H    | 1:A:32:TYR:HD2 | 13       | 5.32          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 20       | 5.32          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 20       | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 4        | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 4        | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 9        | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 9        | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 11       | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 11       | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 13       | 5.32          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 13       | 5.32          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 3        | 5.32          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 3        | 5.32          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 11       | 5.32          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 11       | 5.32          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 13       | 5.32          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 18       | 5.32          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 13       | 5.31          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 13       | 5.31          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 11       | 5.31          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 11       | 5.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,556)  | 1:A:1:SER:HB2  | 1:A:18:LEU:H   | 17       | 5.31          |
| (1,556)  | 1:A:1:SER:HB3  | 1:A:18:LEU:H   | 17       | 5.31          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 1        | 5.31          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 1        | 5.31          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 7        | 5.31          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 7        | 5.31          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 7        | 5.31          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 1        | 5.31          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2 | 6        | 5.31          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2 | 18       | 5.31          |
| (1,4716) | 1:A:27:GLY:HA3 | 1:A:34:ALA:H   | 16       | 5.31          |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 10       | 5.31          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 18       | 5.31          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 19       | 5.31          |
| (1,4634) | 1:A:26:CYS:HA  | 1:A:29:GLY:H   | 20       | 5.31          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA  | 7        | 5.31          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA  | 7        | 5.31          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB2 | 18       | 5.31          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB2 | 18       | 5.31          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB3 | 18       | 5.31          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB3 | 18       | 5.31          |
| (1,4201) | 1:A:22:GLN:HB2 | 1:A:33:CYS:H   | 11       | 5.31          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 8        | 5.31          |
| (1,4121) | 1:A:22:GLN:H   | 1:A:31:LYS:H   | 12       | 5.31          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3 | 5        | 5.31          |
| (1,4012) | 1:A:21:SER:H   | 1:A:22:GLN:HG2 | 11       | 5.31          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1 | 16       | 5.31          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2 | 16       | 5.31          |
| (1,3929) | 1:A:20:CYS:H   | 1:A:28:SER:H   | 11       | 5.31          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 3        | 5.31          |
| (1,3857) | 1:A:19:CYS:HA  | 1:A:25:TYR:H   | 13       | 5.31          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H   | 17       | 5.31          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2 | 5        | 5.31          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 5        | 5.31          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 11       | 5.31          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H   | 18       | 5.31          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H   | 19       | 5.31          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 7        | 5.31          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 18       | 5.31          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 19       | 5.31          |
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2 | 2        | 5.31          |
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2 | 4        | 5.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2 | 10       | 5.31          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2 | 18       | 5.31          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3 | 18       | 5.31          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB2 | 19       | 5.31          |
| (1,3579) | 1:A:17:GLY:H   | 1:A:32:TYR:HB3 | 19       | 5.31          |
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H   | 18       | 5.31          |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H   | 18       | 5.31          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 11       | 5.31          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 3        | 5.31          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 3        | 5.31          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 15       | 5.31          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 15       | 5.31          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 2        | 5.31          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 2        | 5.31          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 5        | 5.31          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 5        | 5.31          |
| (1,2331) | 1:A:9:PRO:HG2  | 1:A:24:GLY:HA2 | 3        | 5.31          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 15       | 5.31          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 14       | 5.31          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 14       | 5.31          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 7        | 5.31          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 18       | 5.31          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 19       | 5.31          |
| (1,2032) | 1:A:8:GLY:H    | 1:A:15:ARG:HE  | 7        | 5.31          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 1        | 5.31          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 1        | 5.31          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 16       | 5.31          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 16       | 5.31          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 2        | 5.31          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 2        | 5.31          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 4        | 5.31          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2  | 15       | 5.31          |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3  | 15       | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 6        | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 6        | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 8        | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 8        | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 15       | 5.31          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 15       | 5.31          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 11       | 5.31          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 11       | 5.31          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 16       | 5.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1719) | 1:A:6:GLN:HG2   | 1:A:24:GLY:H   | 18       | 5.31          |
| (1,1719) | 1:A:6:GLN:HG2   | 1:A:24:GLY:H   | 19       | 5.31          |
| (1,1653) | 1:A:6:GLN:HB3   | 1:A:23:TYR:HB3 | 9        | 5.31          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD1 | 11       | 5.31          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD2 | 11       | 5.31          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD1 | 18       | 5.31          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD2 | 18       | 5.31          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 11       | 5.31          |
| (1,1316) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HA   | 19       | 5.31          |
| (1,1217) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HB2 | 1        | 5.31          |
| (1,1192) | 1:A:4:ASN:HB3   | 1:A:11:TRP:HZ3 | 17       | 5.31          |
| (1,1159) | 1:A:4:ASN:HB2   | 1:A:25:TYR:H   | 7        | 5.31          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2 | 14       | 5.31          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1 | 6        | 5.31          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2 | 6        | 5.31          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3 | 4        | 5.3           |
| (1,573)  | 1:A:1:SER:HB2   | 1:A:25:TYR:H   | 13       | 5.3           |
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H   | 13       | 5.3           |
| (1,556)  | 1:A:1:SER:HB2   | 1:A:18:LEU:H   | 8        | 5.3           |
| (1,556)  | 1:A:1:SER:HB3   | 1:A:18:LEU:H   | 8        | 5.3           |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2 | 15       | 5.3           |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3 | 15       | 5.3           |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 4        | 5.3           |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 4        | 5.3           |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 7        | 5.3           |
| (1,4634) | 1:A:26:CYS:HA   | 1:A:29:GLY:H   | 16       | 5.3           |
| (1,4622) | 1:A:26:CYS:H    | 1:A:32:TYR:HA  | 2        | 5.3           |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 16       | 5.3           |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 16       | 5.3           |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 16       | 5.3           |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 16       | 5.3           |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 6        | 5.3           |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 14       | 5.3           |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 7        | 5.3           |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 2        | 5.3           |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 2        | 5.3           |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 20       | 5.3           |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 2        | 5.3           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 18       | 5.3           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 18       | 5.3           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 19       | 5.3           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 19       | 5.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1  | 20       | 5.3           |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2  | 20       | 5.3           |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE21 | 1        | 5.3           |
| (1,3986) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HE22 | 1        | 5.3           |
| (1,3929) | 1:A:20:CYS:H   | 1:A:28:SER:H    | 1        | 5.3           |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 12       | 5.3           |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 14       | 5.3           |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2  | 10       | 5.3           |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG3  | 10       | 5.3           |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H    | 4        | 5.3           |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H    | 6        | 5.3           |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H    | 10       | 5.3           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2  | 2        | 5.3           |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3  | 2        | 5.3           |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2  | 2        | 5.3           |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3  | 2        | 5.3           |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2  | 10       | 5.3           |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3  | 10       | 5.3           |
| (1,3686) | 1:A:18:LEU:HB2 | 1:A:25:TYR:HB3  | 14       | 5.3           |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3  | 16       | 5.3           |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3  | 20       | 5.3           |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 15       | 5.3           |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2  | 8        | 5.3           |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2  | 15       | 5.3           |
| (1,2699) | 1:A:11:TRP:HB3 | 1:A:24:GLY:HA2  | 17       | 5.3           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1  | 8        | 5.3           |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2  | 8        | 5.3           |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 4        | 5.3           |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 8        | 5.3           |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 9        | 5.3           |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 16       | 5.3           |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 20       | 5.3           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG2  | 9        | 5.3           |
| (1,2031) | 1:A:8:GLY:H    | 1:A:15:ARG:HG3  | 9        | 5.3           |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 5        | 5.3           |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 5        | 5.3           |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 5        | 5.3           |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 5        | 5.3           |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2   | 1        | 5.3           |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3   | 1        | 5.3           |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB2   | 14       | 5.3           |
| (1,1791) | 1:A:6:GLN:HE21 | 1:A:7:CYS:HB3   | 14       | 5.3           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 1        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 1        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 2        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 2        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 5        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 5        | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 10       | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 10       | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 20       | 5.3           |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 20       | 5.3           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 15       | 5.3           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 15       | 5.3           |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 7        | 5.3           |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 4        | 5.3           |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 14       | 5.3           |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 18       | 5.3           |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 19       | 5.3           |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 14       | 5.3           |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 13       | 5.3           |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 16       | 5.3           |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 10       | 5.3           |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 3        | 5.3           |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 3        | 5.3           |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 13       | 5.29          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 13       | 5.29          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 19       | 5.29          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 19       | 5.29          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 8        | 5.29          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 8        | 5.29          |
| (1,555)  | 1:A:1:SER:HB2  | 1:A:16:GLY:H   | 8        | 5.29          |
| (1,555)  | 1:A:1:SER:HB3  | 1:A:16:GLY:H   | 8        | 5.29          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 10       | 5.29          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 10       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 16       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 16       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 16       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 16       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 16       | 5.29          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 16       | 5.29          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 13       | 5.29          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 13       | 5.29          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA  | 13       | 5.29          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 18       | 5.29          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG2  | 10       | 5.29          |
| (1,4742) | 1:A:28:SER:HB2  | 1:A:31:LYS:HG3  | 10       | 5.29          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 9        | 5.29          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG2  | 20       | 5.29          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG2  | 20       | 5.29          |
| (1,4571) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HG3  | 20       | 5.29          |
| (1,4571) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HG3  | 20       | 5.29          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG2  | 19       | 5.29          |
| (1,4538) | 1:A:25:TYR:HB2  | 1:A:31:LYS:HG3  | 19       | 5.29          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2  | 6        | 5.29          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2  | 6        | 5.29          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3  | 6        | 5.29          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3  | 6        | 5.29          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2  | 6        | 5.29          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2  | 6        | 5.29          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3  | 6        | 5.29          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3  | 6        | 5.29          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2  | 3        | 5.29          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2  | 3        | 5.29          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3  | 3        | 5.29          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3  | 3        | 5.29          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 7        | 5.29          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 7        | 5.29          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 3        | 5.29          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 15       | 5.29          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 15       | 5.29          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 8        | 5.29          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 8        | 5.29          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H    | 17       | 5.29          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 18       | 5.29          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 18       | 5.29          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 20       | 5.29          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 20       | 5.29          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1  | 5        | 5.29          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA   | 8        | 5.29          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 7        | 5.29          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 8        | 5.29          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H    | 17       | 5.29          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H    | 9        | 5.29          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H    | 9        | 5.29          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2  | 12       | 5.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB2 | 17       | 5.29          |
| (1,2157) | 1:A:9:PRO:HA   | 1:A:20:CYS:HB3 | 17       | 5.29          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 7        | 5.29          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 7        | 5.29          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 8        | 5.29          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 8        | 5.29          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 3        | 5.29          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 10       | 5.29          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 8        | 5.29          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 8        | 5.29          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 9        | 5.29          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 9        | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 16       | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 16       | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 18       | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 18       | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 20       | 5.29          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 20       | 5.29          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 16       | 5.29          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 16       | 5.29          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 13       | 5.29          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 15       | 5.29          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 3        | 5.29          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 6        | 5.29          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 12       | 5.29          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 13       | 5.29          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 13       | 5.29          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 10       | 5.29          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 10       | 5.29          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 7        | 5.29          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 10       | 5.29          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 11       | 5.28          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 11       | 5.28          |
| (1,845)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HH2 | 9        | 5.28          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1 | 4        | 5.28          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1 | 4        | 5.28          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1 | 17       | 5.28          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2 | 17       | 5.28          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 9        | 5.28          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 9        | 5.28          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 12       | 5.28          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA  | 18       | 5.28          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA   | 19       | 5.28          |
| (1,4681) | 1:A:27:GLY:H   | 1:A:31:LYS:HG2  | 16       | 5.28          |
| (1,4681) | 1:A:27:GLY:H   | 1:A:31:LYS:HG3  | 16       | 5.28          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 10       | 5.28          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 10       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1  | 16       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2  | 16       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1  | 18       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2  | 18       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1  | 19       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2  | 19       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1  | 20       | 5.28          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2  | 20       | 5.28          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 6        | 5.28          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 6        | 5.28          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 6        | 5.28          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 6        | 5.28          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 1        | 5.28          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 1        | 5.28          |
| (1,4405) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HB2  | 3        | 5.28          |
| (1,4405) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HB2  | 3        | 5.28          |
| (1,4193) | 1:A:22:GLN:HB2 | 1:A:32:TYR:H    | 14       | 5.28          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE1  | 5        | 5.28          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE2  | 5        | 5.28          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 13       | 5.28          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 13       | 5.28          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 14       | 5.28          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 14       | 5.28          |
| (1,4061) | 1:A:21:SER:HB3 | 1:A:31:LYS:HB2  | 11       | 5.28          |
| (1,3948) | 1:A:20:CYS:H   | 1:A:35:HIS:HB2  | 19       | 5.28          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2  | 12       | 5.28          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H    | 5        | 5.28          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H    | 11       | 5.28          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H    | 11       | 5.28          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 10       | 5.28          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 18       | 5.28          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 19       | 5.28          |
| (1,3839) | 1:A:19:CYS:H   | 1:A:31:LYS:H    | 20       | 5.28          |
| (1,3713) | 1:A:18:LEU:HB3 | 1:A:25:TYR:H    | 20       | 5.28          |
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2  | 3        | 5.28          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H    | 7        | 5.28          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H    | 12       | 5.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 18       | 5.28          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 19       | 5.28          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 20       | 5.28          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 20       | 5.28          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE  | 15       | 5.28          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 8        | 5.28          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H   | 1        | 5.28          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H   | 11       | 5.28          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H   | 13       | 5.28          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 17       | 5.28          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 17       | 5.28          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 12       | 5.28          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 2        | 5.28          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 12       | 5.28          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 5        | 5.28          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 5        | 5.28          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 6        | 5.28          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 6        | 5.28          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 11       | 5.28          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 11       | 5.28          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 18       | 5.28          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 18       | 5.28          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 19       | 5.28          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 19       | 5.28          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 12       | 5.28          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 12       | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 7        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 7        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 8        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 8        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 9        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 9        | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 12       | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 12       | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 19       | 5.28          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 19       | 5.28          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 3        | 5.28          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2 | 18       | 5.28          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3 | 18       | 5.28          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 1        | 5.28          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 1        | 5.28          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 9        | 5.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 9        | 5.28          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 7        | 5.28          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 8        | 5.28          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 20       | 5.28          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 7        | 5.28          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 7        | 5.28          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 4        | 5.28          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 4        | 5.28          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 11       | 5.28          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 13       | 5.28          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 4        | 5.28          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE1 | 4        | 5.28          |
| (1,1030) | 1:A:3:PRO:HD3  | 1:A:25:TYR:HE2 | 4        | 5.28          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 13       | 5.27          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 13       | 5.27          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2 | 18       | 5.27          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2 | 18       | 5.27          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 6        | 5.27          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 4        | 5.27          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA  | 1        | 5.27          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA  | 6        | 5.27          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 9        | 5.27          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3 | 9        | 5.27          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 13       | 5.27          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3 | 13       | 5.27          |
| (1,4710) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HA  | 20       | 5.27          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2 | 2        | 5.27          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3 | 2        | 5.27          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2 | 2        | 5.27          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3 | 2        | 5.27          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2 | 18       | 5.27          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2 | 19       | 5.27          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2 | 20       | 5.27          |
| (1,4236) | 1:A:22:GLN:HB3 | 1:A:32:TYR:H   | 10       | 5.27          |
| (1,4208) | 1:A:22:GLN:HG2 | 1:A:34:ALA:HA  | 14       | 5.27          |
| (1,4207) | 1:A:22:GLN:HB2 | 1:A:34:ALA:H   | 13       | 5.27          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE1 | 4        | 5.27          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE2 | 4        | 5.27          |
| (1,4160) | 1:A:22:GLN:HG2 | 1:A:24:GLY:HA2 | 19       | 5.27          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3 | 17       | 5.27          |
| (1,4007) | 1:A:20:CYS:HB3 | 1:A:34:ALA:H   | 7        | 5.27          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1 | 9        | 5.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2 | 9        | 5.27          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1 | 9        | 5.27          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2 | 9        | 5.27          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 3        | 5.27          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 4        | 5.27          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 6        | 5.27          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 2        | 5.27          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 12       | 5.27          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 1        | 5.27          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 2        | 5.27          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 5        | 5.27          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H   | 19       | 5.27          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 9        | 5.27          |
| (1,3677) | 1:A:18:LEU:HB2 | 1:A:21:SER:HB3 | 17       | 5.27          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB2 | 14       | 5.27          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB3 | 14       | 5.27          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 8        | 5.27          |
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H   | 13       | 5.27          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 13       | 5.27          |
| (1,3259) | 1:A:15:ARG:H   | 1:A:20:CYS:HB2 | 17       | 5.27          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE1 | 13       | 5.27          |
| (1,3254) | 1:A:14:CYS:HB3 | 1:A:32:TYR:HE2 | 13       | 5.27          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 7        | 5.27          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 8        | 5.27          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 12       | 5.27          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 18       | 5.27          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H   | 19       | 5.27          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H   | 15       | 5.27          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3 | 2        | 5.27          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3 | 3        | 5.27          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3 | 4        | 5.27          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 9        | 5.27          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 11       | 5.27          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 11       | 5.27          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 20       | 5.27          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 20       | 5.27          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 6        | 5.27          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 13       | 5.27          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 13       | 5.27          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 15       | 5.27          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 15       | 5.27          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 7        | 5.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG   | 7        | 5.27          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG   | 9        | 5.27          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG   | 9        | 5.27          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2  | 7        | 5.27          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3  | 7        | 5.27          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2   | 1        | 5.27          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3   | 1        | 5.27          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2   | 11       | 5.27          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3   | 11       | 5.27          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2  | 7        | 5.27          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3  | 7        | 5.27          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB2  | 19       | 5.27          |
| (1,1759) | 1:A:6:GLN:HG3  | 1:A:21:SER:HB3  | 19       | 5.27          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA   | 10       | 5.27          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG   | 16       | 5.27          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2  | 14       | 5.27          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H    | 12       | 5.27          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 17       | 5.27          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2  | 7        | 5.27          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 5        | 5.27          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 2        | 5.27          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 3        | 5.26          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 3        | 5.26          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 3        | 5.26          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 4        | 5.26          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 4        | 5.26          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 4        | 5.26          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG2  | 11       | 5.26          |
| (1,619)  | 1:A:2:GLY:H    | 1:A:15:ARG:HG3  | 11       | 5.26          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2  | 9        | 5.26          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3  | 9        | 5.26          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3  | 3        | 5.26          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 20       | 5.26          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 20       | 5.26          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 20       | 5.26          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 20       | 5.26          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA   | 2        | 5.26          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 3        | 5.26          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 17       | 5.26          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3  | 9        | 5.26          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 14       | 5.26          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 14       | 5.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 7        | 5.26          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 8        | 5.26          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 9        | 5.26          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 15       | 5.26          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 16       | 5.26          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 17       | 5.26          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 17       | 5.26          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 17       | 5.26          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 17       | 5.26          |
| (1,4405) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HB2 | 6        | 5.26          |
| (1,4405) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HB2 | 6        | 5.26          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 8        | 5.26          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 8        | 5.26          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 20       | 5.26          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 20       | 5.26          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 17       | 5.26          |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 6        | 5.26          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 12       | 5.26          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 12       | 5.26          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 19       | 5.26          |
| (1,4007) | 1:A:20:CYS:HB3  | 1:A:34:ALA:H   | 16       | 5.26          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 3        | 5.26          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 3        | 5.26          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 7        | 5.26          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 7        | 5.26          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 7        | 5.26          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 7        | 5.26          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 3        | 5.26          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H   | 10       | 5.26          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H   | 13       | 5.26          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA  | 20       | 5.26          |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H   | 13       | 5.26          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 15       | 5.26          |
| (1,3839) | 1:A:19:CYS:H    | 1:A:31:LYS:H   | 16       | 5.26          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 9        | 5.26          |
| (1,3510) | 1:A:16:GLY:HA2  | 1:A:27:GLY:H   | 17       | 5.26          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 11       | 5.26          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 11       | 5.26          |
| (1,3241) | 1:A:14:CYS:HB3  | 1:A:25:TYR:H   | 16       | 5.26          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 11       | 5.26          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 9        | 5.26          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 3        | 5.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 11       | 5.26          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 1        | 5.26          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 1        | 5.26          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB2 | 13       | 5.26          |
| (1,2985) | 1:A:12:GLY:H   | 1:A:14:CYS:HB3 | 13       | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 7        | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 7        | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 8        | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 8        | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 18       | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 18       | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 19       | 5.26          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 19       | 5.26          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 13       | 5.26          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 7        | 5.26          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 7        | 5.26          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 20       | 5.26          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 20       | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 9        | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 9        | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 16       | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 16       | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 19       | 5.26          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 19       | 5.26          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 15       | 5.26          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 15       | 5.26          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 4        | 5.26          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 13       | 5.26          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 13       | 5.26          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 2        | 5.26          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 8        | 5.26          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 12       | 5.26          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 13       | 5.26          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 18       | 5.26          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 19       | 5.26          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 16       | 5.26          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 16       | 5.26          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 19       | 5.26          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 19       | 5.26          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 3        | 5.26          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 3        | 5.26          |
| (1,1556) | 1:A:6:GLN:HA   | 1:A:14:CYS:HB2 | 17       | 5.26          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H    | 15       | 5.26          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA   | 8        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD11 | 5        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD12 | 5        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD13 | 5        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 5        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 5        | 5.26          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 5        | 5.26          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE1  | 14       | 5.26          |
| (1,1030) | 1:A:3:PRO:HD3   | 1:A:25:TYR:HE2  | 14       | 5.26          |
| (1,554)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HE   | 17       | 5.25          |
| (1,554)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HE   | 17       | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1  | 2        | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2  | 2        | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1  | 11       | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2  | 11       | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1  | 19       | 5.25          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2  | 19       | 5.25          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 20       | 5.25          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 20       | 5.25          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA   | 19       | 5.25          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 5        | 5.25          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1  | 13       | 5.25          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2  | 13       | 5.25          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3  | 13       | 5.25          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD2  | 15       | 5.25          |
| (1,4751) | 1:A:28:SER:HB3  | 1:A:31:LYS:HD3  | 15       | 5.25          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2  | 7        | 5.25          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3  | 7        | 5.25          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2  | 13       | 5.25          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3  | 13       | 5.25          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 10       | 5.25          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 7        | 5.25          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 3        | 5.25          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 11       | 5.25          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 13       | 5.25          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2  | 11       | 5.25          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2  | 13       | 5.25          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3  | 13       | 5.25          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 5        | 5.25          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 9        | 5.25          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 9        | 5.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4160) | 1:A:22:GLN:HG2 | 1:A:24:GLY:HA2  | 2        | 5.25          |
| (1,4160) | 1:A:22:GLN:HG2 | 1:A:24:GLY:HA2  | 11       | 5.25          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3  | 11       | 5.25          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 9        | 5.25          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 9        | 5.25          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 7        | 5.25          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1  | 6        | 5.25          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2  | 6        | 5.25          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1  | 8        | 5.25          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2  | 8        | 5.25          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2  | 15       | 5.25          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3  | 15       | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 9        | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 13       | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 15       | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 16       | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 18       | 5.25          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA   | 19       | 5.25          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2  | 17       | 5.25          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3  | 17       | 5.25          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2  | 13       | 5.25          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H    | 16       | 5.25          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2  | 1        | 5.25          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H    | 4        | 5.25          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2  | 20       | 5.25          |
| (1,2750) | 1:A:11:TRP:HD1 | 1:A:26:CYS:H    | 17       | 5.25          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2  | 9        | 5.25          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3  | 9        | 5.25          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2  | 16       | 5.25          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3  | 16       | 5.25          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1  | 9        | 5.25          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2  | 9        | 5.25          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 18       | 5.25          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 18       | 5.25          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA   | 17       | 5.25          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H    | 11       | 5.25          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 5        | 5.25          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1  | 13       | 5.25          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2  | 13       | 5.25          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1  | 13       | 5.25          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 13       | 5.25          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 19       | 5.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE  | 19       | 5.25          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 18       | 5.25          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 18       | 5.25          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 20       | 5.25          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 20       | 5.25          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 2        | 5.25          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 3        | 5.25          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 9        | 5.25          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 10       | 5.25          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 12       | 5.25          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 17       | 5.25          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 17       | 5.25          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 9        | 5.25          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 5        | 5.25          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 20       | 5.25          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 6        | 5.25          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 6        | 5.25          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 3        | 5.25          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 4        | 5.25          |
| (1,1192) | 1:A:4:ASN:HB3  | 1:A:11:TRP:HZ3 | 11       | 5.25          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 2        | 5.25          |
| (1,896)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HA  | 9        | 5.24          |
| (1,896)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HA  | 9        | 5.24          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2 | 17       | 5.24          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 4        | 5.24          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 4        | 5.24          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 13       | 5.24          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 13       | 5.24          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 14       | 5.24          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 14       | 5.24          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1 | 8        | 5.24          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2 | 8        | 5.24          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB2 | 5        | 5.24          |
| (1,521)  | 1:A:1:SER:HA   | 1:A:20:CYS:HB3 | 5        | 5.24          |
| (1,4925) | 1:A:32:TYR:HB2 | 1:A:35:HIS:HE1 | 20       | 5.24          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H   | 8        | 5.24          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H   | 8        | 5.24          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 20       | 5.24          |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3 | 5        | 5.24          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2 | 10       | 5.24          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3 | 5        | 5.24          |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3 | 1        | 5.24          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2 | 13       | 5.24          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD2 | 8        | 5.24          |
| (1,4369) | 1:A:23:TYR:HA   | 1:A:31:LYS:HD3 | 8        | 5.24          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 1        | 5.24          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 1        | 5.24          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 7        | 5.24          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 7        | 5.24          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 17       | 5.24          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 17       | 5.24          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA  | 2        | 5.24          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA  | 5        | 5.24          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA  | 7        | 5.24          |
| (1,3888) | 1:A:19:CYS:HB3  | 1:A:22:GLN:HA  | 17       | 5.24          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H   | 9        | 5.24          |
| (1,3816) | 1:A:18:LEU:HD21 | 1:A:34:ALA:H   | 14       | 5.24          |
| (1,3816) | 1:A:18:LEU:HD22 | 1:A:34:ALA:H   | 14       | 5.24          |
| (1,3816) | 1:A:18:LEU:HD23 | 1:A:34:ALA:H   | 14       | 5.24          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 10       | 5.24          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 10       | 5.24          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 10       | 5.24          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 3        | 5.24          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 17       | 5.24          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 8        | 5.24          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 13       | 5.24          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 13       | 5.24          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB2 | 16       | 5.24          |
| (1,3579) | 1:A:17:GLY:H    | 1:A:32:TYR:HB3 | 16       | 5.24          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 14       | 5.24          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 14       | 5.24          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 13       | 5.24          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 13       | 5.24          |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 20       | 5.24          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 15       | 5.24          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 2        | 5.24          |
| (1,3092) | 1:A:13:GLY:H    | 1:A:18:LEU:HB2 | 16       | 5.24          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB2 | 14       | 5.24          |
| (1,2985) | 1:A:12:GLY:H    | 1:A:14:CYS:HB3 | 14       | 5.24          |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB2 | 11       | 5.24          |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB3 | 11       | 5.24          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE1 | 20       | 5.24          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE2 | 20       | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HA  | 2        | 5.24          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 3        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 4        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 5        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 6        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 8        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 9        | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 10       | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 12       | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 14       | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 16       | 5.24          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 20       | 5.24          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 1        | 5.24          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 18       | 5.24          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 18       | 5.24          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 20       | 5.24          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 20       | 5.24          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 15       | 5.24          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 15       | 5.24          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 8        | 5.24          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 8        | 5.24          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 13       | 5.24          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 13       | 5.24          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 14       | 5.24          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 14       | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 5        | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 6        | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 7        | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 8        | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 11       | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 16       | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 19       | 5.24          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 20       | 5.24          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 9        | 5.24          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 13       | 5.24          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 7        | 5.24          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 16       | 5.24          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 17       | 5.24          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 17       | 5.24          |
| (1,1618) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HA   | 17       | 5.24          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 15       | 5.24          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 15       | 5.24          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 6        | 5.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 4        | 5.24          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 4        | 5.24          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 4        | 5.24          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 4        | 5.24          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 4        | 5.24          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 4        | 5.24          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 15       | 5.23          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 15       | 5.23          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 12       | 5.23          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 12       | 5.23          |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 16       | 5.23          |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 16       | 5.23          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 9        | 5.23          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 9        | 5.23          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 18       | 5.23          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 18       | 5.23          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 18       | 5.23          |
| (1,4897) | 1:A:31:LYS:HD2 | 1:A:33:CYS:HA   | 16       | 5.23          |
| (1,4897) | 1:A:31:LYS:HD3 | 1:A:33:CYS:HA   | 16       | 5.23          |
| (1,4696) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB2  | 1        | 5.23          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H    | 19       | 5.23          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 1        | 5.23          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 1        | 5.23          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 4        | 5.23          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 4        | 5.23          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 9        | 5.23          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 9        | 5.23          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE2  | 19       | 5.23          |
| (1,4572) | 1:A:25:TYR:HD1 | 1:A:31:LYS:HE3  | 19       | 5.23          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE2  | 19       | 5.23          |
| (1,4572) | 1:A:25:TYR:HD2 | 1:A:31:LYS:HE3  | 19       | 5.23          |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3  | 4        | 5.23          |
| (1,4446) | 1:A:24:GLY:H   | 1:A:27:GLY:HA3  | 6        | 5.23          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2  | 1        | 5.23          |
| (1,4269) | 1:A:22:GLN:HG3 | 1:A:34:ALA:HA   | 14       | 5.23          |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 11       | 5.23          |
| (1,4207) | 1:A:22:GLN:HB2 | 1:A:34:ALA:H    | 2        | 5.23          |
| (1,4192) | 1:A:22:GLN:HG2 | 1:A:32:TYR:H    | 10       | 5.23          |
| (1,4061) | 1:A:21:SER:HB3 | 1:A:31:LYS:HB2  | 8        | 5.23          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 8        | 5.23          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1  | 8        | 5.23          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2  | 8        | 5.23          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1 | 16       | 5.23          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2 | 16       | 5.23          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 14       | 5.23          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 17       | 5.23          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 3        | 5.23          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 4        | 5.23          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 6        | 5.23          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 15       | 5.23          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 17       | 5.23          |
| (1,3857) | 1:A:19:CYS:HA  | 1:A:25:TYR:H   | 12       | 5.23          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 15       | 5.23          |
| (1,3718) | 1:A:18:LEU:HB3 | 1:A:29:GLY:HA3 | 14       | 5.23          |
| (1,3617) | 1:A:17:GLY:HA2 | 1:A:35:HIS:HB3 | 8        | 5.23          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 18       | 5.23          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE  | 5        | 5.23          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 5        | 5.23          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 5        | 5.23          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 15       | 5.23          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 15       | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 1        | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 7        | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 11       | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 13       | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 15       | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 18       | 5.23          |
| (1,2246) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HA  | 19       | 5.23          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 5        | 5.23          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 5        | 5.23          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 12       | 5.23          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 12       | 5.23          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 14       | 5.23          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 14       | 5.23          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 14       | 5.23          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 1        | 5.23          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 14       | 5.23          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 18       | 5.23          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 12       | 5.23          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 12       | 5.23          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 11       | 5.23          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 12       | 5.23          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3 | 11       | 5.23          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 1        | 5.23          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1644) | 1:A:6:GLN:HB3   | 1:A:21:SER:H    | 15       | 5.23          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD1  | 3        | 5.23          |
| (1,1569) | 1:A:6:GLN:HA    | 1:A:23:TYR:HD2  | 3        | 5.23          |
| (1,1521) | 1:A:6:GLN:H     | 1:A:21:SER:H    | 1        | 5.23          |
| (1,1521) | 1:A:6:GLN:H     | 1:A:21:SER:H    | 11       | 5.23          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H    | 14       | 5.23          |
| (1,1460) | 1:A:5:GLY:HA2   | 1:A:27:GLY:HA3  | 17       | 5.23          |
| (1,1159) | 1:A:4:ASN:HB2   | 1:A:25:TYR:H    | 6        | 5.23          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD1  | 1        | 5.22          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD2  | 1        | 5.22          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2  | 12       | 5.22          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3  | 12       | 5.22          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 19       | 5.22          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 19       | 5.22          |
| (1,4922) | 1:A:32:TYR:HA   | 1:A:35:HIS:HE1  | 7        | 5.22          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H    | 13       | 5.22          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H    | 13       | 5.22          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2  | 2        | 5.22          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3  | 2        | 5.22          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2  | 7        | 5.22          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2  | 7        | 5.22          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2  | 9        | 5.22          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 18       | 5.22          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H    | 20       | 5.22          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 13       | 5.22          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA   | 8        | 5.22          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA   | 8        | 5.22          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA   | 15       | 5.22          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA   | 15       | 5.22          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2  | 12       | 5.22          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 10       | 5.22          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 10       | 5.22          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 3        | 5.22          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 3        | 5.22          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 13       | 5.22          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 13       | 5.22          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 14       | 5.22          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 14       | 5.22          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H    | 17       | 5.22          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3  | 10       | 5.22          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 20       | 5.22          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 20       | 5.22          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1 | 5        | 5.22          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2 | 5        | 5.22          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE1 | 14       | 5.22          |
| (1,4004) | 1:A:20:CYS:HB3 | 1:A:32:TYR:HE2 | 14       | 5.22          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 1        | 5.22          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 11       | 5.22          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 15       | 5.22          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 1        | 5.22          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 10       | 5.22          |
| (1,3888) | 1:A:19:CYS:HB3 | 1:A:22:GLN:HA  | 11       | 5.22          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2 | 12       | 5.22          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3 | 12       | 5.22          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 8        | 5.22          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1 | 20       | 5.22          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2 | 20       | 5.22          |
| (1,3325) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HB2 | 15       | 5.22          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 11       | 5.22          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 5        | 5.22          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 5        | 5.22          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 6        | 5.22          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 6        | 5.22          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 19       | 5.22          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE  | 1        | 5.22          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3 | 13       | 5.22          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H   | 10       | 5.22          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 1        | 5.22          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 13       | 5.22          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 18       | 5.22          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 19       | 5.22          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 16       | 5.22          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 16       | 5.22          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 1        | 5.22          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 1        | 5.22          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 12       | 5.22          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 12       | 5.22          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 19       | 5.22          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 19       | 5.22          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 19       | 5.22          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 19       | 5.22          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 2        | 5.22          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 2        | 5.22          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 2        | 5.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2  | 2        | 5.22          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2  | 15       | 5.22          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3  | 15       | 5.22          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H    | 15       | 5.22          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 14       | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 1        | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 7        | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 8        | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 16       | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 18       | 5.22          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 20       | 5.22          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H    | 9        | 5.22          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 2        | 5.22          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 2        | 5.22          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 10       | 5.22          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 10       | 5.22          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 16       | 5.22          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 15       | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 3        | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 3        | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 3        | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 3        | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 3        | 5.22          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 3        | 5.22          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 8        | 5.21          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 8        | 5.21          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 7        | 5.21          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 7        | 5.21          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 18       | 5.21          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 18       | 5.21          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 20       | 5.21          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 20       | 5.21          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2  | 1        | 5.21          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3  | 1        | 5.21          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 9        | 5.21          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 9        | 5.21          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 20       | 5.21          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 8        | 5.21          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 8        | 5.21          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA   | 11       | 5.21          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 7        | 5.21          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1  | 18       | 5.21          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2  | 18       | 5.21          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3  | 18       | 5.21          |
| (1,4696) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB2  | 15       | 5.21          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3  | 14       | 5.21          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 1        | 5.21          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 8        | 5.21          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 3        | 5.21          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 6        | 5.21          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 15       | 5.21          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 8        | 5.21          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 6        | 5.21          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 6        | 5.21          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H    | 20       | 5.21          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2  | 16       | 5.21          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 7        | 5.21          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 7        | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1  | 11       | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2  | 11       | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1  | 12       | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2  | 12       | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1  | 15       | 5.21          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2  | 15       | 5.21          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2  | 16       | 5.21          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3  | 16       | 5.21          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H    | 8        | 5.21          |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H    | 16       | 5.21          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H    | 8        | 5.21          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H    | 9        | 5.21          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H    | 16       | 5.21          |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H    | 18       | 5.21          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2  | 1        | 5.21          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3  | 1        | 5.21          |
| (1,3787) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HA   | 14       | 5.21          |
| (1,3787) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HA   | 14       | 5.21          |
| (1,3787) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HA   | 14       | 5.21          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3  | 12       | 5.21          |
| (1,3522) | 1:A:16:GLY:HA2  | 1:A:35:HIS:HD2  | 13       | 5.21          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 6        | 5.21          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 6        | 5.21          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 6        | 5.21          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2  | 8        | 5.21          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2  | 18       | 5.21          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 5        | 5.21          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 17       | 5.21          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 5        | 5.21          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 5        | 5.21          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 11       | 5.21          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 11       | 5.21          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H   | 14       | 5.21          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE1 | 4        | 5.21          |
| (1,2016) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HE2 | 4        | 5.21          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 4        | 5.21          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 4        | 5.21          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 14       | 5.21          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 14       | 5.21          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 6        | 5.21          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 6        | 5.21          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 15       | 5.21          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 19       | 5.21          |
| (1,1644) | 1:A:6:GLN:HB3  | 1:A:21:SER:H   | 11       | 5.21          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 4        | 5.21          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 4        | 5.21          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 20       | 5.21          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 20       | 5.21          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 13       | 5.21          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 10       | 5.21          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2 | 1        | 5.21          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3 | 1        | 5.21          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 16       | 5.21          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 1        | 5.21          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 2        | 5.2           |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 2        | 5.2           |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 11       | 5.2           |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 11       | 5.2           |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H   | 5        | 5.2           |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H   | 5        | 5.2           |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H   | 5        | 5.2           |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H   | 6        | 5.2           |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H   | 6        | 5.2           |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 14       | 5.2           |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 15       | 5.2           |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 15       | 5.2           |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 5        | 5.2           |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2 | 20       | 5.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4699) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HD3 | 20       | 5.2           |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 13       | 5.2           |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 15       | 5.2           |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 9        | 5.2           |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 16       | 5.2           |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 4        | 5.2           |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 4        | 5.2           |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 20       | 5.2           |
| (1,4242) | 1:A:22:GLN:HB3  | 1:A:34:ALA:HA  | 16       | 5.2           |
| (1,4207) | 1:A:22:GLN:HB2  | 1:A:34:ALA:H   | 4        | 5.2           |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 1        | 5.2           |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 1        | 5.2           |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 3        | 5.2           |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 16       | 5.2           |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 8        | 5.2           |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 8        | 5.2           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 1        | 5.2           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 1        | 5.2           |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 14       | 5.2           |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 14       | 5.2           |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 1        | 5.2           |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 14       | 5.2           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 10       | 5.2           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 10       | 5.2           |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 4        | 5.2           |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 4        | 5.2           |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 4        | 5.2           |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H   | 7        | 5.2           |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H   | 18       | 5.2           |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H   | 19       | 5.2           |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 7        | 5.2           |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 14       | 5.2           |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 19       | 5.2           |
| (1,3857) | 1:A:19:CYS:HA   | 1:A:25:TYR:H   | 20       | 5.2           |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 13       | 5.2           |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 13       | 5.2           |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 14       | 5.2           |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 5        | 5.2           |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H   | 12       | 5.2           |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 19       | 5.2           |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 7        | 5.2           |
| (1,3198) | 1:A:14:CYS:HB2  | 1:A:21:SER:HG  | 16       | 5.2           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3 | 3        | 5.2           |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3 | 4        | 5.2           |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 6        | 5.2           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 8        | 5.2           |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 8        | 5.2           |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 5        | 5.2           |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 5        | 5.2           |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 13       | 5.2           |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 13       | 5.2           |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 6        | 5.2           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 8        | 5.2           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 8        | 5.2           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 16       | 5.2           |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 16       | 5.2           |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 15       | 5.2           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 2        | 5.2           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 2        | 5.2           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 10       | 5.2           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 10       | 5.2           |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 3        | 5.2           |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 4        | 5.2           |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 12       | 5.2           |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 3        | 5.2           |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 4        | 5.2           |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 14       | 5.2           |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 1        | 5.2           |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 4        | 5.19          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 4        | 5.19          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 20       | 5.19          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 20       | 5.19          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1 | 13       | 5.19          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2 | 13       | 5.19          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 14       | 5.19          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD2 | 6        | 5.19          |
| (1,4751) | 1:A:28:SER:HB3 | 1:A:31:LYS:HD3 | 6        | 5.19          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 1        | 5.19          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H   | 15       | 5.19          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1 | 4        | 5.19          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ2 | 4        | 5.19          |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ3 | 4        | 5.19          |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 9        | 5.19          |
| (1,4642) | 1:A:26:CYS:HA  | 1:A:32:TYR:H   | 1        | 5.19          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 11       | 5.19          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 12       | 5.19          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 8        | 5.19          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 9        | 5.19          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 14       | 5.19          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2  | 17       | 5.19          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2  | 17       | 5.19          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3  | 17       | 5.19          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3  | 17       | 5.19          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 5        | 5.19          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 5        | 5.19          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 5        | 5.19          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 5        | 5.19          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 12       | 5.19          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 12       | 5.19          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 12       | 5.19          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 12       | 5.19          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H    | 10       | 5.19          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H    | 10       | 5.19          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 2        | 5.19          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 2        | 5.19          |
| (1,4241) | 1:A:22:GLN:HB3  | 1:A:34:ALA:H    | 16       | 5.19          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1  | 7        | 5.19          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2  | 7        | 5.19          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H    | 6        | 5.19          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2  | 17       | 5.19          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3  | 17       | 5.19          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2  | 18       | 5.19          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 14       | 5.19          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 14       | 5.19          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1  | 13       | 5.19          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2  | 13       | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 7        | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 8        | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 9        | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 11       | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 15       | 5.19          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2  | 17       | 5.19          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1  | 12       | 5.19          |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H    | 9        | 5.19          |
| (1,3849) | 1:A:19:CYS:H    | 1:A:35:HIS:H    | 6        | 5.19          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2  | 11       | 5.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 11       | 5.19          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2 | 12       | 5.19          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 12       | 5.19          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 2        | 5.19          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 5        | 5.19          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2 | 3        | 5.19          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB2 | 17       | 5.19          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB3 | 17       | 5.19          |
| (1,3206) | 1:A:14:CYS:HB2 | 1:A:25:TYR:H   | 14       | 5.19          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2 | 16       | 5.19          |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3 | 2        | 5.19          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE  | 17       | 5.19          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 9        | 5.19          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 9        | 5.19          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 18       | 5.19          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 18       | 5.19          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 13       | 5.19          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 13       | 5.19          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD1 | 14       | 5.19          |
| (1,1954) | 1:A:7:CYS:H    | 1:A:23:TYR:HD2 | 14       | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 3        | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 3        | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 4        | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 4        | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 6        | 5.19          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 6        | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 4        | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 4        | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 7        | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 7        | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 20       | 5.19          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 20       | 5.19          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H   | 10       | 5.19          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 4        | 5.19          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 9        | 5.19          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 9        | 5.19          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 11       | 5.19          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 11       | 5.19          |
| (1,1646) | 1:A:6:GLN:HB3  | 1:A:21:SER:HG  | 1        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 3        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 3        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 4        | 5.19          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 4        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB2  | 5        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 5        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB2  | 6        | 5.19          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 6        | 5.19          |
| (1,1555) | 1:A:6:GLN:HA    | 1:A:11:TRP:HH2 | 5        | 5.19          |
| (1,1521) | 1:A:6:GLN:H     | 1:A:21:SER:H   | 14       | 5.19          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 9        | 5.19          |
| (1,1460) | 1:A:5:GLY:HA2   | 1:A:27:GLY:HA3 | 20       | 5.19          |
| (1,1284) | 1:A:4:ASN:HD21  | 1:A:25:TYR:HB3 | 8        | 5.19          |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H    | 14       | 5.19          |
| (1,1224) | 1:A:4:ASN:HB3   | 1:A:26:CYS:HA  | 18       | 5.19          |
| (1,1211) | 1:A:4:ASN:HB3   | 1:A:21:SER:HG  | 3        | 5.19          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD1 | 7        | 5.18          |
| (1,695)  | 1:A:2:GLY:HA2   | 1:A:25:TYR:HD2 | 7        | 5.18          |
| (1,573)  | 1:A:1:SER:HB2   | 1:A:25:TYR:H   | 14       | 5.18          |
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H   | 14       | 5.18          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 13       | 5.18          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 13       | 5.18          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA  | 19       | 5.18          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 3        | 5.18          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 13       | 5.18          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 11       | 5.18          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 11       | 5.18          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 11       | 5.18          |
| (1,4552) | 1:A:25:TYR:HB3  | 1:A:32:TYR:HA  | 4        | 5.18          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 7        | 5.18          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 18       | 5.18          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 19       | 5.18          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 18       | 5.18          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 18       | 5.18          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 5        | 5.18          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 5        | 5.18          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 20       | 5.18          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 14       | 5.18          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 14       | 5.18          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 6        | 5.18          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 6        | 5.18          |
| (1,4208) | 1:A:22:GLN:HG2  | 1:A:34:ALA:HA  | 17       | 5.18          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 4        | 5.18          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 16       | 5.18          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 15       | 5.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2 | 15       | 5.18          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3 | 8        | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1 | 18       | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2 | 18       | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1 | 19       | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2 | 19       | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1 | 20       | 5.18          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2 | 20       | 5.18          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 7        | 5.18          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 7        | 5.18          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 12       | 5.18          |
| (1,3874) | 1:A:19:CYS:HB2 | 1:A:25:TYR:H   | 20       | 5.18          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H   | 5        | 5.18          |
| (1,3724) | 1:A:18:LEU:HB3 | 1:A:33:CYS:HB2 | 4        | 5.18          |
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H   | 11       | 5.18          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 13       | 5.18          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2 | 9        | 5.18          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2 | 20       | 5.18          |
| (1,3198) | 1:A:14:CYS:HB2 | 1:A:21:SER:HG  | 14       | 5.18          |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3 | 10       | 5.18          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 2        | 5.18          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 3        | 5.18          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 4        | 5.18          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 7        | 5.18          |
| (1,3092) | 1:A:13:GLY:H   | 1:A:18:LEU:HB2 | 10       | 5.18          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 14       | 5.18          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 14       | 5.18          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 9        | 5.18          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 9        | 5.18          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 13       | 5.18          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 13       | 5.18          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 14       | 5.18          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 10       | 5.18          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 10       | 5.18          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 10       | 5.18          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 10       | 5.18          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2  | 5        | 5.18          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3  | 5        | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 7        | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 8        | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 9        | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 12       | 5.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 16       | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 18       | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 19       | 5.18          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 20       | 5.18          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 17       | 5.18          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 17       | 5.18          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 2        | 5.18          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 4        | 5.18          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 5        | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 12       | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 12       | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 16       | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 16       | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 20       | 5.18          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 20       | 5.18          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1  | 6        | 5.18          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2  | 6        | 5.18          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 5        | 5.18          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 5        | 5.18          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 2        | 5.18          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 6        | 5.18          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 10       | 5.18          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 9        | 5.18          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 15       | 5.18          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 8        | 5.18          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 20       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 13       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 13       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 13       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 13       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 13       | 5.18          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 13       | 5.18          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2  | 3        | 5.17          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3  | 3        | 5.17          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 2        | 5.17          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 2        | 5.17          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 7        | 5.17          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 7        | 5.17          |
| (1,516)  | 1:A:1:SER:HA   | 1:A:15:ARG:HE   | 20       | 5.17          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 18       | 5.17          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2  | 14       | 5.17          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1  | 18       | 5.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 18       | 5.17          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 18       | 5.17          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 7        | 5.17          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 11       | 5.17          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 4        | 5.17          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 8        | 5.17          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 7        | 5.17          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3 | 20       | 5.17          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 18       | 5.17          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 2        | 5.17          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 18       | 5.17          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 7        | 5.17          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 2        | 5.17          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 2        | 5.17          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 13       | 5.17          |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H   | 8        | 5.17          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 3        | 5.17          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 3        | 5.17          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 6        | 5.17          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 4        | 5.17          |
| (1,3406) | 1:A:15:ARG:HD2  | 1:A:27:GLY:HA3 | 1        | 5.17          |
| (1,3406) | 1:A:15:ARG:HD3  | 1:A:27:GLY:HA3 | 1        | 5.17          |
| (1,3292) | 1:A:15:ARG:HB2  | 1:A:20:CYS:H   | 11       | 5.17          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 4        | 5.17          |
| (1,3220) | 1:A:14:CYS:HB2  | 1:A:33:CYS:H   | 8        | 5.17          |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H   | 1        | 5.17          |
| (1,3205) | 1:A:14:CYS:HB2  | 1:A:24:GLY:HA2 | 7        | 5.17          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1 | 7        | 5.17          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD2 | 7        | 5.17          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1 | 8        | 5.17          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD2 | 8        | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 11       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 11       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 15       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 15       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 19       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 19       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 20       | 5.17          |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 20       | 5.17          |
| (1,2057) | 1:A:8:GLY:H     | 1:A:25:TYR:HD1 | 10       | 5.17          |
| (1,2057) | 1:A:8:GLY:H     | 1:A:25:TYR:HD2 | 10       | 5.17          |
| (1,1959) | 1:A:7:CYS:H     | 1:A:27:GLY:HA2 | 1        | 5.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3  | 1        | 5.17          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2   | 2        | 5.17          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3   | 2        | 5.17          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2   | 10       | 5.17          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3   | 10       | 5.17          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 2        | 5.17          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 10       | 5.17          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2   | 14       | 5.17          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3   | 14       | 5.17          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 6        | 5.17          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 10       | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 1        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 1        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 7        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 7        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 8        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 8        | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 18       | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 18       | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 19       | 5.17          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 19       | 5.17          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1  | 1        | 5.17          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2  | 1        | 5.17          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1  | 5        | 5.17          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2  | 5        | 5.17          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 8        | 5.17          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 9        | 5.17          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 9        | 5.17          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 9        | 5.17          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 7        | 5.17          |
| (1,1224) | 1:A:4:ASN:HB3  | 1:A:26:CYS:HA   | 19       | 5.17          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 4        | 5.16          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 10       | 5.16          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 10       | 5.16          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 6        | 5.16          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 6        | 5.16          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 6        | 5.16          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 11       | 5.16          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 11       | 5.16          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 11       | 5.16          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 11       | 5.16          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 13       | 5.16          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H    | 13       | 5.16          |
| (1,560)  | 1:A:1:SER:HB2   | 1:A:19:CYS:H    | 15       | 5.16          |
| (1,560)  | 1:A:1:SER:HB3   | 1:A:19:CYS:H    | 15       | 5.16          |
| (1,4876) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HD2  | 11       | 5.16          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H    | 9        | 5.16          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA   | 19       | 5.16          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA   | 20       | 5.16          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA   | 7        | 5.16          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA   | 9        | 5.16          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2  | 6        | 5.16          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3  | 6        | 5.16          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3  | 8        | 5.16          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3  | 14       | 5.16          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3  | 12       | 5.16          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 8        | 5.16          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 14       | 5.16          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 15       | 5.16          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2  | 20       | 5.16          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 11       | 5.16          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 11       | 5.16          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 11       | 5.16          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 11       | 5.16          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2  | 17       | 5.16          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2  | 17       | 5.16          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3  | 17       | 5.16          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3  | 17       | 5.16          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 5        | 5.16          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 1        | 5.16          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 1        | 5.16          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 3        | 5.16          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA   | 5        | 5.16          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 5        | 5.16          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 5        | 5.16          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1  | 4        | 5.16          |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2  | 4        | 5.16          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 6        | 5.16          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 6        | 5.16          |
| (1,3954) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HG3  | 1        | 5.16          |
| (1,3896) | 1:A:19:CYS:HB3  | 1:A:25:TYR:H    | 9        | 5.16          |
| (1,3874) | 1:A:19:CYS:HB2  | 1:A:25:TYR:H    | 14       | 5.16          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2  | 10       | 5.16          |
| (1,3646) | 1:A:18:LEU:H    | 1:A:20:CYS:HB2  | 5        | 5.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2 | 6        | 5.16          |
| (1,3646) | 1:A:18:LEU:H   | 1:A:20:CYS:HB2 | 17       | 5.16          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1 | 18       | 5.16          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2 | 18       | 5.16          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD1 | 19       | 5.16          |
| (1,3638) | 1:A:17:GLY:HA3 | 1:A:32:TYR:HD2 | 19       | 5.16          |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3 | 6        | 5.16          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3 | 6        | 5.16          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 13       | 5.16          |
| (1,3246) | 1:A:14:CYS:HB3 | 1:A:28:SER:H   | 3        | 5.16          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 9        | 5.16          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 13       | 5.16          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H   | 5        | 5.16          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H   | 6        | 5.16          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 7        | 5.16          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 7        | 5.16          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 17       | 5.16          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 17       | 5.16          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 2        | 5.16          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 2        | 5.16          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 15       | 5.16          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 15       | 5.16          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 8        | 5.16          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 8        | 5.16          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 12       | 5.16          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 12       | 5.16          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA2 | 11       | 5.16          |
| (1,1959) | 1:A:7:CYS:H    | 1:A:27:GLY:HA3 | 11       | 5.16          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 1        | 5.16          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 11       | 5.16          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 15       | 5.16          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 4        | 5.16          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 4        | 5.16          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 18       | 5.16          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 18       | 5.16          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 19       | 5.16          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 19       | 5.16          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 2        | 5.16          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 3        | 5.16          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 5        | 5.16          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 6        | 5.16          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H   | 14       | 5.16          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1699) | 1:A:6:GLN:HG2   | 1:A:10:GLY:HA2 | 15       | 5.16          |
| (1,1699) | 1:A:6:GLN:HG2   | 1:A:10:GLY:HA3 | 15       | 5.16          |
| (1,1646) | 1:A:6:GLN:HB3   | 1:A:21:SER:HG  | 11       | 5.16          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB2  | 14       | 5.16          |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 14       | 5.16          |
| (1,1522) | 1:A:6:GLN:H     | 1:A:21:SER:HG  | 9        | 5.16          |
| (1,1521) | 1:A:6:GLN:H     | 1:A:21:SER:H   | 6        | 5.16          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 2        | 5.16          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 5        | 5.16          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 6        | 5.16          |
| (1,1474) | 1:A:5:GLY:HA3   | 1:A:14:CYS:H   | 16       | 5.16          |
| (1,1460) | 1:A:5:GLY:HA2   | 1:A:27:GLY:HA3 | 18       | 5.16          |
| (1,1418) | 1:A:5:GLY:H     | 1:A:18:LEU:HB3 | 18       | 5.16          |
| (1,1250) | 1:A:4:ASN:HD21  | 1:A:7:CYS:H    | 3        | 5.16          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 17       | 5.16          |
| (1,576)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HE1 | 20       | 5.15          |
| (1,576)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HE2 | 20       | 5.15          |
| (1,576)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HE1 | 20       | 5.15          |
| (1,576)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HE2 | 20       | 5.15          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB2 | 9        | 5.15          |
| (1,514)  | 1:A:1:SER:HA    | 1:A:15:ARG:HB3 | 9        | 5.15          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 2        | 5.15          |
| (1,4848) | 1:A:30:PRO:HD3  | 1:A:35:HIS:HD2 | 8        | 5.15          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 2        | 5.15          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 2        | 5.15          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 8        | 5.15          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 9        | 5.15          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 2        | 5.15          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 12       | 5.15          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 14       | 5.15          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 14       | 5.15          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 5        | 5.15          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 13       | 5.15          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 17       | 5.15          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 19       | 5.15          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 19       | 5.15          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 1        | 5.15          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 1        | 5.15          |
| (1,4329) | 1:A:22:GLN:HE22 | 1:A:33:CYS:H   | 15       | 5.15          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 10       | 5.15          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 13       | 5.15          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 16       | 5.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4012) | 1:A:21:SER:H   | 1:A:22:GLN:HG2 | 13       | 5.15          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 16       | 5.15          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 18       | 5.15          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 19       | 5.15          |
| (1,3924) | 1:A:20:CYS:H   | 1:A:25:TYR:HB2 | 20       | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 8        | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 8        | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 9        | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 9        | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB2 | 18       | 5.15          |
| (1,3914) | 1:A:20:CYS:H   | 1:A:22:GLN:HB3 | 18       | 5.15          |
| (1,3913) | 1:A:20:CYS:H   | 1:A:22:GLN:HG2 | 17       | 5.15          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 16       | 5.15          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 18       | 5.15          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 19       | 5.15          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H   | 20       | 5.15          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2 | 1        | 5.15          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG3 | 1        | 5.15          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2 | 14       | 5.15          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 14       | 5.15          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2 | 15       | 5.15          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 15       | 5.15          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H   | 14       | 5.15          |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2 | 4        | 5.15          |
| (1,3292) | 1:A:15:ARG:HB2 | 1:A:20:CYS:H   | 1        | 5.15          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 1        | 5.15          |
| (1,3246) | 1:A:14:CYS:HB3 | 1:A:28:SER:H   | 2        | 5.15          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 1        | 5.15          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 15       | 5.15          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H   | 1        | 5.15          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 16       | 5.15          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 10       | 5.15          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 10       | 5.15          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 17       | 5.15          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 17       | 5.15          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 2        | 5.15          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 2        | 5.15          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 11       | 5.15          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 11       | 5.15          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 3        | 5.15          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 3        | 5.15          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 4        | 5.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 4        | 5.15          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 14       | 5.15          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 14       | 5.15          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 2        | 5.15          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 2        | 5.15          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 10       | 5.15          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 10       | 5.15          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 2        | 5.15          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 2        | 5.15          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 10       | 5.15          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 10       | 5.15          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 12       | 5.15          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 8        | 5.15          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 9        | 5.15          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 16       | 5.15          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3 | 19       | 5.15          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H    | 9        | 5.15          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 4        | 5.15          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 13       | 5.15          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 1        | 5.14          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 6        | 5.14          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 6        | 5.14          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 6        | 5.14          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 5        | 5.14          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 5        | 5.14          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 20       | 5.14          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 20       | 5.14          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 7        | 5.14          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 7        | 5.14          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 7        | 5.14          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 7        | 5.14          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 7        | 5.14          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 7        | 5.14          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 17       | 5.14          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3 | 3        | 5.14          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 1        | 5.14          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 1        | 5.14          |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 20       | 5.14          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H   | 8        | 5.14          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA  | 18       | 5.14          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA  | 18       | 5.14          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA  | 20       | 5.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 20       | 5.14          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 1        | 5.14          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 1        | 5.14          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 4        | 5.14          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 4        | 5.14          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 4        | 5.14          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 4        | 5.14          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 13       | 5.14          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 13       | 5.14          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 13       | 5.14          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 13       | 5.14          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 11       | 5.14          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 11       | 5.14          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 7        | 5.14          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 7        | 5.14          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 16       | 5.14          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 7        | 5.14          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 7        | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 8        | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 8        | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 9        | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 9        | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 14       | 5.14          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 14       | 5.14          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 7        | 5.14          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 11       | 5.14          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 11       | 5.14          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 3        | 5.14          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 10       | 5.14          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 3        | 5.14          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 5        | 5.14          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3 | 20       | 5.14          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 3        | 5.14          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 3        | 5.14          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 19       | 5.14          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 19       | 5.14          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 6        | 5.14          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 5        | 5.14          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 7        | 5.14          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 7        | 5.14          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3 | 6        | 5.14          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 13       | 5.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 18       | 5.14          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 19       | 5.14          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 5        | 5.14          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 5        | 5.14          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 10       | 5.14          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 10       | 5.14          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 8        | 5.14          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 8        | 5.14          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 20       | 5.14          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 20       | 5.14          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 6        | 5.14          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 6        | 5.14          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 6        | 5.14          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 6        | 5.14          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 13       | 5.14          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 5        | 5.14          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 13       | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 3        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 3        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 4        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 4        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 5        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 5        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 6        | 5.14          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 6        | 5.14          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 1        | 5.14          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 1        | 5.14          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 11       | 5.14          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 11       | 5.14          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 14       | 5.14          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 14       | 5.14          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 3        | 5.14          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 4        | 5.14          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 5        | 5.14          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 10       | 5.14          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 20       | 5.14          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 19       | 5.14          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 11       | 5.14          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 11       | 5.14          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H    | 1        | 5.14          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H    | 4        | 5.14          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 1        | 5.14          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 1        | 5.14          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 20       | 5.14          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 20       | 5.14          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 12       | 5.13          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 12       | 5.13          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 15       | 5.13          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 15       | 5.13          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB2  | 8        | 5.13          |
| (1,514)  | 1:A:1:SER:HA   | 1:A:15:ARG:HB3  | 8        | 5.13          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 3        | 5.13          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 11       | 5.13          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 2        | 5.13          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 5        | 5.13          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 16       | 5.13          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 19       | 5.13          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 2        | 5.13          |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3  | 7        | 5.13          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H    | 7        | 5.13          |
| (1,4689) | 1:A:27:GLY:H   | 1:A:34:ALA:H    | 14       | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 3        | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 3        | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 11       | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 11       | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 15       | 5.13          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 15       | 5.13          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3  | 9        | 5.13          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3  | 9        | 5.13          |
| (1,4207) | 1:A:22:GLN:HB2 | 1:A:34:ALA:H    | 7        | 5.13          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA   | 6        | 5.13          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3  | 12       | 5.13          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 13       | 5.13          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 13       | 5.13          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 9        | 5.13          |
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG2  | 7        | 5.13          |
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG3  | 7        | 5.13          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 14       | 5.13          |
| (1,3896) | 1:A:19:CYS:HB3 | 1:A:25:TYR:H    | 7        | 5.13          |
| (1,3849) | 1:A:19:CYS:H   | 1:A:35:HIS:H    | 20       | 5.13          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 1        | 5.13          |
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3  | 15       | 5.13          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3  | 15       | 5.13          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H    | 11       | 5.13          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H    | 4        | 5.13          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 15       | 5.13          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE   | 16       | 5.13          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2  | 2        | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD11 | 14       | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD12 | 14       | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 14       | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 14       | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 14       | 5.13          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 14       | 5.13          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 7        | 5.13          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 8        | 5.13          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 12       | 5.13          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 20       | 5.13          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 2        | 5.13          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 2        | 5.13          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2  | 2        | 5.13          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3  | 2        | 5.13          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 2        | 5.13          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 2        | 5.13          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 5        | 5.13          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 5        | 5.13          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 10       | 5.13          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 10       | 5.13          |
| (1,2014) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HA   | 17       | 5.13          |
| (1,2014) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HA   | 17       | 5.13          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H    | 18       | 5.13          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H    | 18       | 5.13          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H    | 19       | 5.13          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H    | 19       | 5.13          |
| (1,1926) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ3  | 17       | 5.13          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 14       | 5.13          |
| (1,1719) | 1:A:6:GLN:HG2  | 1:A:24:GLY:H    | 3        | 5.13          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 13       | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 2        | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 2        | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 3        | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 3        | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 10       | 5.13          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 10       | 5.13          |
| (1,1653) | 1:A:6:GLN:HB3  | 1:A:23:TYR:HB3  | 15       | 5.13          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2   | 15       | 5.13          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3   | 15       | 5.13          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1  | 15       | 5.13          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2  | 15       | 5.13          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 11       | 5.13          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 2        | 5.13          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H    | 18       | 5.13          |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 20       | 5.13          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H     | 15       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 17       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 17       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 17       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 17       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 17       | 5.13          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 17       | 5.13          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2  | 15       | 5.13          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 3        | 5.12          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG2  | 11       | 5.12          |
| (1,755)  | 1:A:3:PRO:HA   | 1:A:15:ARG:HG3  | 11       | 5.12          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3  | 5        | 5.12          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 17       | 5.12          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 17       | 5.12          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 15       | 5.12          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 15       | 5.12          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 14       | 5.12          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 14       | 5.12          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H    | 13       | 5.12          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 15       | 5.12          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 15       | 5.12          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 5        | 5.12          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 8        | 5.12          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 11       | 5.12          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD2  | 8        | 5.12          |
| (1,4699) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HD3  | 8        | 5.12          |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3  | 13       | 5.12          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3  | 4        | 5.12          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA   | 10       | 5.12          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA   | 10       | 5.12          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG2  | 20       | 5.12          |
| (1,4538) | 1:A:25:TYR:HB2 | 1:A:31:LYS:HG3  | 20       | 5.12          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE1  | 13       | 5.12          |
| (1,4498) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HE2  | 13       | 5.12          |
| (1,4454) | 1:A:24:GLY:H   | 1:A:31:LYS:HD2  | 8        | 5.12          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4454) | 1:A:24:GLY:H    | 1:A:31:LYS:HD3  | 8        | 5.12          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H    | 1        | 5.12          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 3        | 5.12          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 1        | 5.12          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA   | 12       | 5.12          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1  | 11       | 5.12          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2  | 11       | 5.12          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1  | 17       | 5.12          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2  | 16       | 5.12          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3  | 16       | 5.12          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H    | 5        | 5.12          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 19       | 5.12          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3  | 7        | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1  | 11       | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2  | 11       | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1  | 15       | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2  | 15       | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1  | 17       | 5.12          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2  | 17       | 5.12          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2  | 11       | 5.12          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3  | 11       | 5.12          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2  | 12       | 5.12          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3  | 12       | 5.12          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA   | 3        | 5.12          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H    | 7        | 5.12          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2  | 10       | 5.12          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3  | 10       | 5.12          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H    | 6        | 5.12          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG   | 12       | 5.12          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG   | 13       | 5.12          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H    | 2        | 5.12          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H    | 10       | 5.12          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE   | 8        | 5.12          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 5        | 5.12          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2  | 3        | 5.12          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2  | 5        | 5.12          |
| (1,3048) | 1:A:12:GLY:HA3  | 1:A:14:CYS:HB2  | 9        | 5.12          |
| (1,3048) | 1:A:12:GLY:HA3  | 1:A:14:CYS:HB2  | 14       | 5.12          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2  | 3        | 5.12          |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3  | 3        | 5.12          |
| (1,2423) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE3  | 3        | 5.12          |
| (1,2423) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE3  | 3        | 5.12          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 4        | 5.12          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 4        | 5.12          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 6        | 5.12          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 6        | 5.12          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 10       | 5.12          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 10       | 5.12          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1 | 1        | 5.12          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2 | 1        | 5.12          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 9        | 5.12          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 9        | 5.12          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 2        | 5.12          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 2        | 5.12          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 5        | 5.12          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 5        | 5.12          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 6        | 5.12          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 6        | 5.12          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 12       | 5.12          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 12       | 5.12          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 13       | 5.12          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 14       | 5.12          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 8        | 5.12          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 19       | 5.12          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 18       | 5.12          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 12       | 5.12          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 14       | 5.12          |
| (1,1250) | 1:A:4:ASN:HD21 | 1:A:7:CYS:H    | 20       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 8        | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 8        | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 9        | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 9        | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 11       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 11       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 15       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 15       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 18       | 5.12          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 18       | 5.12          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 4        | 5.11          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 4        | 5.11          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 4        | 5.11          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 4        | 5.11          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 19       | 5.11          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 19       | 5.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 10       | 5.11          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 10       | 5.11          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 10       | 5.11          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 2        | 5.11          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 2        | 5.11          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 10       | 5.11          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA  | 4        | 5.11          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA  | 18       | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 6        | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 6        | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 8        | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 8        | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 9        | 5.11          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 9        | 5.11          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 15       | 5.11          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 15       | 5.11          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 16       | 5.11          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 16       | 5.11          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3 | 16       | 5.11          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 3        | 5.11          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 12       | 5.11          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 13       | 5.11          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 13       | 5.11          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 11       | 5.11          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 11       | 5.11          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 19       | 5.11          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 19       | 5.11          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 6        | 5.11          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 2        | 5.11          |
| (1,3924) | 1:A:20:CYS:H    | 1:A:25:TYR:HB2 | 10       | 5.11          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 2        | 5.11          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 2        | 5.11          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 13       | 5.11          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 13       | 5.11          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 6        | 5.11          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 12       | 5.11          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 8        | 5.11          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 8        | 5.11          |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 12       | 5.11          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 9        | 5.11          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 9        | 5.11          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 14       | 5.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 14       | 5.11          |
| (1,3205) | 1:A:14:CYS:HB2 | 1:A:24:GLY:HA2 | 14       | 5.11          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2 | 4        | 5.11          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2 | 6        | 5.11          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1 | 18       | 5.11          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2 | 18       | 5.11          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 4        | 5.11          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 4        | 5.11          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 4        | 5.11          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 4        | 5.11          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 6        | 5.11          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 6        | 5.11          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 11       | 5.11          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 11       | 5.11          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 17       | 5.11          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 17       | 5.11          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 10       | 5.11          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 7        | 5.11          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 7        | 5.11          |
| (1,1997) | 1:A:7:CYS:HB2  | 1:A:22:GLN:H   | 16       | 5.11          |
| (1,1997) | 1:A:7:CYS:HB3  | 1:A:22:GLN:H   | 16       | 5.11          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 5        | 5.11          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 5        | 5.11          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 5        | 5.11          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 5        | 5.11          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 4        | 5.11          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 13       | 5.11          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA  | 17       | 5.11          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 14       | 5.11          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 14       | 5.11          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 9        | 5.11          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 9        | 5.11          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 1        | 5.11          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 14       | 5.11          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 16       | 5.11          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 7        | 5.11          |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H   | 19       | 5.11          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 1        | 5.11          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 16       | 5.11          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 13       | 5.11          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 12       | 5.11          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 7        | 5.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB3  | 7        | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB2  | 12       | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB3  | 12       | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB2  | 13       | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB3  | 13       | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB2  | 19       | 5.11          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB3  | 19       | 5.11          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H    | 20       | 5.1           |
| (1,562)  | 1:A:1:SER:HB2   | 1:A:21:SER:H   | 6        | 5.1           |
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H   | 6        | 5.1           |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 18       | 5.1           |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 4        | 5.1           |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 9        | 5.1           |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 2        | 5.1           |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 11       | 5.1           |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 2        | 5.1           |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3 | 4        | 5.1           |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 12       | 5.1           |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 12       | 5.1           |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 12       | 5.1           |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 12       | 5.1           |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 18       | 5.1           |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 18       | 5.1           |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 17       | 5.1           |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 17       | 5.1           |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 19       | 5.1           |
| (1,4250) | 1:A:22:GLN:HG3  | 1:A:25:TYR:HB3 | 16       | 5.1           |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 11       | 5.1           |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 2        | 5.1           |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 4        | 5.1           |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 18       | 5.1           |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 12       | 5.1           |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 12       | 5.1           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE1 | 10       | 5.1           |
| (1,4004) | 1:A:20:CYS:HB3  | 1:A:32:TYR:HE2 | 10       | 5.1           |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 1        | 5.1           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 5        | 5.1           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 5        | 5.1           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 6        | 5.1           |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 6        | 5.1           |
| (1,3808) | 1:A:18:LEU:HD21 | 1:A:30:PRO:HA  | 14       | 5.1           |
| (1,3808) | 1:A:18:LEU:HD22 | 1:A:30:PRO:HA  | 14       | 5.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3808) | 1:A:18:LEU:HD23 | 1:A:30:PRO:HA  | 14       | 5.1           |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 11       | 5.1           |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD1 | 16       | 5.1           |
| (1,3638) | 1:A:17:GLY:HA3  | 1:A:32:TYR:HD2 | 16       | 5.1           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 5        | 5.1           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 5        | 5.1           |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 17       | 5.1           |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 17       | 5.1           |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 15       | 5.1           |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 3        | 5.1           |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 3        | 5.1           |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 5        | 5.1           |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 9        | 5.1           |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 11       | 5.1           |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 3        | 5.1           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 10       | 5.1           |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 1        | 5.1           |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 11       | 5.1           |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1 | 19       | 5.1           |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD2 | 19       | 5.1           |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2 | 2        | 5.1           |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3 | 2        | 5.1           |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA2 | 6        | 5.1           |
| (1,2777) | 1:A:11:TRP:HE3  | 1:A:13:GLY:HA3 | 6        | 5.1           |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB2 | 3        | 5.1           |
| (1,2739) | 1:A:11:TRP:HD1  | 1:A:20:CYS:HB3 | 3        | 5.1           |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE1 | 7        | 5.1           |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE2 | 7        | 5.1           |
| (1,2423) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE3 | 9        | 5.1           |
| (1,2423) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE3 | 9        | 5.1           |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD1 | 2        | 5.1           |
| (1,2122) | 1:A:8:GLY:HA3   | 1:A:25:TYR:HD2 | 2        | 5.1           |
| (1,2111) | 1:A:8:GLY:HA3   | 1:A:21:SER:H   | 2        | 5.1           |
| (1,1919) | 1:A:7:CYS:H     | 1:A:9:PRO:HA   | 3        | 5.1           |
| (1,1919) | 1:A:7:CYS:H     | 1:A:9:PRO:HA   | 6        | 5.1           |
| (1,1896) | 1:A:6:GLN:HE22  | 1:A:24:GLY:HA2 | 3        | 5.1           |
| (1,1896) | 1:A:6:GLN:HE22  | 1:A:24:GLY:HA3 | 3        | 5.1           |
| (1,1740) | 1:A:6:GLN:HG3   | 1:A:9:PRO:HD2  | 10       | 5.1           |
| (1,1740) | 1:A:6:GLN:HG3   | 1:A:9:PRO:HD3  | 10       | 5.1           |
| (1,1662) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HA  | 12       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB2  | 7        | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HB3  | 7        | 5.1           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2   | 8        | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3   | 8        | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2   | 16       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3   | 16       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2   | 18       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3   | 18       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2   | 20       | 5.1           |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3   | 20       | 5.1           |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 17       | 5.1           |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 18       | 5.1           |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 19       | 5.1           |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 20       | 5.1           |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 4        | 5.1           |
| (1,1474) | 1:A:5:GLY:HA3  | 1:A:14:CYS:H    | 20       | 5.1           |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 8        | 5.1           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 1        | 5.1           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 1        | 5.1           |
| (1,1418) | 1:A:5:GLY:H    | 1:A:18:LEU:HB3  | 7        | 5.1           |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 16       | 5.1           |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 16       | 5.1           |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 18       | 5.09          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 5        | 5.09          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 5        | 5.09          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 5        | 5.09          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 8        | 5.09          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 8        | 5.09          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 19       | 5.09          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 19       | 5.09          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 19       | 5.09          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 19       | 5.09          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 14       | 5.09          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 14       | 5.09          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 18       | 5.09          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 18       | 5.09          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 10       | 5.09          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 10       | 5.09          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2  | 7        | 5.09          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 7        | 5.09          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 1        | 5.09          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 1        | 5.09          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 10       | 5.09          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 10       | 5.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H   | 10       | 5.09          |
| (1,4860) | 1:A:31:LYS:HB2  | 1:A:33:CYS:HA  | 13       | 5.09          |
| (1,4689) | 1:A:27:GLY:H    | 1:A:34:ALA:H   | 16       | 5.09          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 2        | 5.09          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H   | 10       | 5.09          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 13       | 5.09          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 13       | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 2        | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 2        | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 7        | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 7        | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 14       | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 14       | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1 | 17       | 5.09          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2 | 17       | 5.09          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 14       | 5.09          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 7        | 5.09          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 3        | 5.09          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 1        | 5.09          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 9        | 5.09          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 14       | 5.09          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 18       | 5.09          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 18       | 5.09          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 13       | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 6        | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 6        | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 9        | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 9        | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 18       | 5.09          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 18       | 5.09          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 14       | 5.09          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 1        | 5.09          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 17       | 5.09          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 17       | 5.09          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 17       | 5.09          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 8        | 5.09          |
| (1,3231) | 1:A:14:CYS:HB3  | 1:A:21:SER:HG  | 20       | 5.09          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 6        | 5.09          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 14       | 5.09          |
| (1,3118) | 1:A:13:GLY:H    | 1:A:26:CYS:HB2 | 10       | 5.09          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1 | 20       | 5.09          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD2 | 20       | 5.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 5        | 5.09          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 5        | 5.09          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA2 | 10       | 5.09          |
| (1,2777) | 1:A:11:TRP:HE3 | 1:A:13:GLY:HA3 | 10       | 5.09          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 13       | 5.09          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 13       | 5.09          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 13       | 5.09          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 13       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 8        | 5.09          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 8        | 5.09          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 14       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 14       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 19       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 19       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 20       | 5.09          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 20       | 5.09          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 5        | 5.09          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 4        | 5.09          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 4        | 5.09          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 10       | 5.09          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 10       | 5.09          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 5        | 5.09          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 10       | 5.09          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 2        | 5.09          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 2        | 5.09          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 4        | 5.09          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 17       | 5.09          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 17       | 5.09          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 19       | 5.09          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 19       | 5.09          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H   | 4        | 5.09          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 7        | 5.09          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 8        | 5.09          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 20       | 5.09          |
| (1,1521) | 1:A:6:GLN:H    | 1:A:21:SER:H   | 7        | 5.09          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 17       | 5.09          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 17       | 5.09          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 12       | 5.09          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 12       | 5.09          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 9        | 5.09          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 11       | 5.09          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 11       | 5.09          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB2  | 6        | 5.08          |
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB3  | 6        | 5.08          |
| (1,577)  | 1:A:1:SER:HB2   | 1:A:27:GLY:H    | 3        | 5.08          |
| (1,577)  | 1:A:1:SER:HB3   | 1:A:27:GLY:H    | 3        | 5.08          |
| (1,560)  | 1:A:1:SER:HB2   | 1:A:19:CYS:H    | 18       | 5.08          |
| (1,560)  | 1:A:1:SER:HB3   | 1:A:19:CYS:H    | 18       | 5.08          |
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2  | 12       | 5.08          |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2  | 12       | 5.08          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 18       | 5.08          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 18       | 5.08          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA   | 18       | 5.08          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1  | 5        | 5.08          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2  | 5        | 5.08          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1  | 12       | 5.08          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2  | 12       | 5.08          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 10       | 5.08          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 10       | 5.08          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 10       | 5.08          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 10       | 5.08          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 11       | 5.08          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 13       | 5.08          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 13       | 5.08          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 14       | 5.08          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 11       | 5.08          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H    | 6        | 5.08          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 19       | 5.08          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 19       | 5.08          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 7        | 5.08          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 7        | 5.08          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2  | 5        | 5.08          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA   | 16       | 5.08          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1  | 1        | 5.08          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2  | 1        | 5.08          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 6        | 5.08          |
| (1,3308) | 1:A:15:ARG:HB2  | 1:A:28:SER:H    | 1        | 5.08          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2  | 4        | 5.08          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3  | 4        | 5.08          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2  | 17       | 5.08          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3  | 17       | 5.08          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H    | 10       | 5.08          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3  | 13       | 5.08          |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H    | 11       | 5.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 10       | 5.08          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 1        | 5.08          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 1        | 5.08          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 15       | 5.08          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB2 | 17       | 5.08          |
| (1,2739) | 1:A:11:TRP:HD1 | 1:A:20:CYS:HB3 | 17       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 7        | 5.08          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 7        | 5.08          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 12       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 12       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 16       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 16       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 18       | 5.08          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 18       | 5.08          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1 | 1        | 5.08          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2 | 1        | 5.08          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H   | 4        | 5.08          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 13       | 5.08          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 13       | 5.08          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA   | 2        | 5.08          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 10       | 5.08          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 10       | 5.08          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 13       | 5.08          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 6        | 5.08          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 6        | 5.08          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 13       | 5.08          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 17       | 5.08          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 17       | 5.08          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB2  | 13       | 5.08          |
| (1,1619) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HB3  | 13       | 5.08          |
| (1,1591) | 1:A:6:GLN:HB2  | 1:A:13:GLY:H   | 17       | 5.08          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H   | 3        | 5.08          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H   | 6        | 5.08          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD1 | 14       | 5.08          |
| (1,1569) | 1:A:6:GLN:HA   | 1:A:23:TYR:HD2 | 14       | 5.08          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 12       | 5.08          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 16       | 5.08          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG  | 3        | 5.08          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 7        | 5.08          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 7        | 5.07          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 15       | 5.07          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 16       | 5.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H   | 16       | 5.07          |
| (1,562)  | 1:A:1:SER:HB2   | 1:A:21:SER:H   | 18       | 5.07          |
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H   | 18       | 5.07          |
| (1,561)  | 1:A:1:SER:HB2   | 1:A:20:CYS:H   | 7        | 5.07          |
| (1,561)  | 1:A:1:SER:HB3   | 1:A:20:CYS:H   | 7        | 5.07          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 5        | 5.07          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 5        | 5.07          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 2        | 5.07          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 15       | 5.07          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 15       | 5.07          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 2        | 5.07          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 2        | 5.07          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 10       | 5.07          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 10       | 5.07          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 10       | 5.07          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 17       | 5.07          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE2 | 8        | 5.07          |
| (1,4700) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HE3 | 8        | 5.07          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 3        | 5.07          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 3        | 5.07          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 10       | 5.07          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 10       | 5.07          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 10       | 5.07          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 10       | 5.07          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 6        | 5.07          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 6        | 5.07          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 14       | 5.07          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 14       | 5.07          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 9        | 5.07          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 9        | 5.07          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 8        | 5.07          |
| (1,4088) | 1:A:21:SER:HG   | 1:A:31:LYS:HB3 | 2        | 5.07          |
| (1,4008) | 1:A:20:CYS:HB3  | 1:A:34:ALA:HA  | 7        | 5.07          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 5        | 5.07          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 13       | 5.07          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 13       | 5.07          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB2 | 4        | 5.07          |
| (1,3914) | 1:A:20:CYS:H    | 1:A:22:GLN:HB3 | 4        | 5.07          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 12       | 5.07          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 9        | 5.07          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 9        | 5.07          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 1        | 5.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2 | 1        | 5.07          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2 | 12       | 5.07          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H   | 10       | 5.07          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB2 | 6        | 5.07          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB3 | 6        | 5.07          |
| (1,3344) | 1:A:15:ARG:HB3 | 1:A:28:SER:H   | 13       | 5.07          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 7        | 5.07          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 18       | 5.07          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG  | 19       | 5.07          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 7        | 5.07          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 11       | 5.07          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 11       | 5.07          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 14       | 5.07          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 15       | 5.07          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 15       | 5.07          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 9        | 5.07          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD2  | 5        | 5.07          |
| (1,1740) | 1:A:6:GLN:HG3  | 1:A:9:PRO:HD3  | 5        | 5.07          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 8        | 5.07          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 16       | 5.07          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 18       | 5.07          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 19       | 5.07          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 1        | 5.07          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 9        | 5.07          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2 | 15       | 5.07          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 18       | 5.07          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 15       | 5.07          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 1        | 5.07          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 5        | 5.07          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 7        | 5.07          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 5        | 5.07          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 14       | 5.07          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 14       | 5.07          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1 | 1        | 5.06          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1 | 2        | 5.06          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1 | 17       | 5.06          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 4        | 5.06          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 13       | 5.06          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 19       | 5.06          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 2        | 5.06          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2 | 16       | 5.06          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2 | 16       | 5.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2 | 20       | 5.06          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3 | 20       | 5.06          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA  | 10       | 5.06          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA  | 10       | 5.06          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA  | 10       | 5.06          |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H   | 9        | 5.06          |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H   | 9        | 5.06          |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H   | 9        | 5.06          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 6        | 5.06          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 6        | 5.06          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2 | 19       | 5.06          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3 | 19       | 5.06          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 19       | 5.06          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 19       | 5.06          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 18       | 5.06          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 18       | 5.06          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG2 | 19       | 5.06          |
| (1,4681) | 1:A:27:GLY:H    | 1:A:31:LYS:HG3 | 19       | 5.06          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 6        | 5.06          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 6        | 5.06          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 10       | 5.06          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 20       | 5.06          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 20       | 5.06          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 13       | 5.06          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 13       | 5.06          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 15       | 5.06          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 3        | 5.06          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 10       | 5.06          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 10       | 5.06          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 12       | 5.06          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 12       | 5.06          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 5        | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 16       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 16       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 18       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 18       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 19       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 19       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA2 | 20       | 5.06          |
| (1,3828) | 1:A:19:CYS:H    | 1:A:24:GLY:HA3 | 20       | 5.06          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 8        | 5.06          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 2        | 5.06          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3  | 2        | 5.06          |
| (1,3246) | 1:A:14:CYS:HB3 | 1:A:28:SER:H    | 17       | 5.06          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD1  | 14       | 5.06          |
| (1,3242) | 1:A:14:CYS:HB3 | 1:A:25:TYR:HD2  | 14       | 5.06          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG   | 16       | 5.06          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H    | 5        | 5.06          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 15       | 5.06          |
| (1,3118) | 1:A:13:GLY:H   | 1:A:26:CYS:HB2  | 17       | 5.06          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 11       | 5.06          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 11       | 5.06          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 1        | 5.06          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 1        | 5.06          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3  | 15       | 5.06          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3  | 15       | 5.06          |
| (1,2111) | 1:A:8:GLY:HA3  | 1:A:21:SER:H    | 6        | 5.06          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG   | 3        | 5.06          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG   | 3        | 5.06          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2  | 5        | 5.06          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3  | 5        | 5.06          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 15       | 5.06          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 3        | 5.06          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 11       | 5.06          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 12       | 5.06          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA   | 7        | 5.06          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA   | 9        | 5.06          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA   | 20       | 5.06          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2   | 1        | 5.06          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3   | 1        | 5.06          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2   | 11       | 5.06          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3   | 11       | 5.06          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 11       | 5.06          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 15       | 5.06          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 6        | 5.06          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 3        | 5.06          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 4        | 5.06          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 11       | 5.06          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 13       | 5.06          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 20       | 5.06          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB2  | 20       | 5.06          |
| (1,1287) | 1:A:4:ASN:HD21 | 1:A:26:CYS:HB3  | 20       | 5.06          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 10       | 5.06          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 12       | 5.06          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD12 | 12       | 5.06          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD13 | 12       | 5.06          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 12       | 5.06          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 12       | 5.06          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 12       | 5.06          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H     | 16       | 5.05          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H     | 17       | 5.05          |
| (1,615)  | 1:A:2:GLY:H     | 1:A:13:GLY:HA3  | 10       | 5.05          |
| (1,562)  | 1:A:1:SER:HB2   | 1:A:21:SER:H    | 7        | 5.05          |
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H    | 7        | 5.05          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD21  | 8        | 5.05          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD21  | 8        | 5.05          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD22  | 8        | 5.05          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD22  | 8        | 5.05          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 20       | 5.05          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 20       | 5.05          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H    | 9        | 5.05          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H    | 9        | 5.05          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H    | 9        | 5.05          |
| (1,4871) | 1:A:31:LYS:HG2  | 1:A:33:CYS:HA   | 8        | 5.05          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1  | 1        | 5.05          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2  | 1        | 5.05          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3  | 1        | 5.05          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2  | 4        | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 2        | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 4        | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 16       | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 18       | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 19       | 5.05          |
| (1,4642) | 1:A:26:CYS:HA   | 1:A:32:TYR:H    | 20       | 5.05          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA   | 16       | 5.05          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA   | 16       | 5.05          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE1  | 4        | 5.05          |
| (1,4498) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HE2  | 4        | 5.05          |
| (1,4446) | 1:A:24:GLY:H    | 1:A:27:GLY:HA3  | 12       | 5.05          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2  | 17       | 5.05          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 17       | 5.05          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 17       | 5.05          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3  | 14       | 5.05          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 17       | 5.05          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 17       | 5.05          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H    | 16       | 5.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 3        | 5.05          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 2        | 5.05          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 2        | 5.05          |
| (1,4269) | 1:A:22:GLN:HG3  | 1:A:34:ALA:HA  | 1        | 5.05          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 14       | 5.05          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 5        | 5.05          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 10       | 5.05          |
| (1,4109) | 1:A:22:GLN:H    | 1:A:26:CYS:H   | 17       | 5.05          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 17       | 5.05          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 16       | 5.05          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 16       | 5.05          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 5        | 5.05          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 5        | 5.05          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 5        | 5.05          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 10       | 5.05          |
| (1,3727) | 1:A:18:LEU:HG   | 1:A:20:CYS:H   | 12       | 5.05          |
| (1,3713) | 1:A:18:LEU:HB3  | 1:A:25:TYR:H   | 14       | 5.05          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 20       | 5.05          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 5        | 5.05          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 5        | 5.05          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 15       | 5.05          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 15       | 5.05          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 2        | 5.05          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 2        | 5.05          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 10       | 5.05          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 15       | 5.05          |
| (1,3048) | 1:A:12:GLY:HA3  | 1:A:14:CYS:HB2 | 11       | 5.05          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE1 | 13       | 5.05          |
| (1,2660) | 1:A:11:TRP:HB2  | 1:A:25:TYR:HE2 | 13       | 5.05          |
| (1,2488) | 1:A:10:GLY:HA2  | 1:A:11:TRP:HH2 | 9        | 5.05          |
| (1,2488) | 1:A:10:GLY:HA2  | 1:A:11:TRP:HH2 | 14       | 5.05          |
| (1,2488) | 1:A:10:GLY:HA2  | 1:A:11:TRP:HH2 | 16       | 5.05          |
| (1,2488) | 1:A:10:GLY:HA2  | 1:A:11:TRP:HH2 | 20       | 5.05          |
| (1,2111) | 1:A:8:GLY:HA3   | 1:A:21:SER:H   | 3        | 5.05          |
| (1,2044) | 1:A:8:GLY:H     | 1:A:21:SER:H   | 15       | 5.05          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1 | 10       | 5.05          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2 | 10       | 5.05          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1 | 10       | 5.05          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2 | 10       | 5.05          |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 2        | 5.05          |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 2        | 5.05          |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 10       | 5.05          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 10       | 5.05          |
| (1,1992) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HG  | 1        | 5.05          |
| (1,1992) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HG  | 1        | 5.05          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 15       | 5.05          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2 | 13       | 5.05          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3 | 13       | 5.05          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 15       | 5.05          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 15       | 5.05          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 15       | 5.05          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 13       | 5.05          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 19       | 5.05          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG  | 2        | 5.05          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 19       | 5.05          |
| (1,1063) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ2 | 19       | 5.05          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1 | 5        | 5.04          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2 | 5        | 5.04          |
| (1,615)  | 1:A:2:GLY:H    | 1:A:13:GLY:HA3 | 17       | 5.04          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 2        | 5.04          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 2        | 5.04          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 7        | 5.04          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 7        | 5.04          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 19       | 5.04          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 19       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 18       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 18       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 18       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 18       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 18       | 5.04          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 18       | 5.04          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 2        | 5.04          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 2        | 5.04          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 2        | 5.04          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2 | 5        | 5.04          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3 | 5        | 5.04          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2 | 10       | 5.04          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3 | 10       | 5.04          |
| (1,4573) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HA  | 17       | 5.04          |
| (1,4573) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HA  | 17       | 5.04          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1 | 5        | 5.04          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2 | 5        | 5.04          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1 | 14       | 5.04          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2 | 14       | 5.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD1 | 17       | 5.04          |
| (1,4497) | 1:A:24:GLY:HA3 | 1:A:32:TYR:HD2 | 17       | 5.04          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2 | 2        | 5.04          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1 | 1        | 5.04          |
| (1,4200) | 1:A:22:GLN:HG2 | 1:A:33:CYS:H   | 17       | 5.04          |
| (1,4192) | 1:A:22:GLN:HG2 | 1:A:32:TYR:H   | 15       | 5.04          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE1 | 16       | 5.04          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE2 | 16       | 5.04          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H   | 9        | 5.04          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE2 | 12       | 5.04          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE3 | 12       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 3        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 4        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 6        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 7        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 8        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 9        | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 11       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 12       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 16       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 18       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 19       | 5.04          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 20       | 5.04          |
| (1,4088) | 1:A:21:SER:HG  | 1:A:31:LYS:HB3 | 4        | 5.04          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H   | 4        | 5.04          |
| (1,3913) | 1:A:20:CYS:H   | 1:A:22:GLN:HG2 | 14       | 5.04          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA2 | 7        | 5.04          |
| (1,3828) | 1:A:19:CYS:H   | 1:A:24:GLY:HA3 | 7        | 5.04          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 16       | 5.04          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 18       | 5.04          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 19       | 5.04          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H   | 11       | 5.04          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2 | 3        | 5.04          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA  | 1        | 5.04          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA  | 1        | 5.04          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 14       | 5.04          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 12       | 5.04          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 12       | 5.04          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H   | 5        | 5.04          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2 | 10       | 5.04          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3 | 10       | 5.04          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 13       | 5.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 2        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 3        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 4        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 6        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 7        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 8        | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 10       | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 11       | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 12       | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 18       | 5.04          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 19       | 5.04          |
| (1,2423) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE3 | 13       | 5.04          |
| (1,2423) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE3 | 13       | 5.04          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 2        | 5.04          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 5        | 5.04          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 6        | 5.04          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 10       | 5.04          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 1        | 5.04          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA  | 1        | 5.04          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 1        | 5.04          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA  | 4        | 5.04          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 4        | 5.04          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 11       | 5.04          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 11       | 5.04          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2 | 17       | 5.04          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3 | 17       | 5.04          |
| (1,1922) | 1:A:7:CYS:H    | 1:A:10:GLY:HA3 | 17       | 5.04          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA2 | 6        | 5.04          |
| (1,1896) | 1:A:6:GLN:HE22 | 1:A:24:GLY:HA3 | 6        | 5.04          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 17       | 5.04          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 1        | 5.04          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 14       | 5.04          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H   | 2        | 5.04          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 13       | 5.04          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 13       | 5.04          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 16       | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 8        | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 8        | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 13       | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 13       | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 15       | 5.04          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 15       | 5.04          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1284) | 1:A:4:ASN:HD21  | 1:A:25:TYR:HB3 | 16       | 5.04          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 7        | 5.04          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 12       | 5.04          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 18       | 5.04          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2 | 20       | 5.04          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 11       | 5.03          |
| (1,573)  | 1:A:1:SER:HB2   | 1:A:25:TYR:H   | 12       | 5.03          |
| (1,573)  | 1:A:1:SER:HB3   | 1:A:25:TYR:H   | 12       | 5.03          |
| (1,562)  | 1:A:1:SER:HB2   | 1:A:21:SER:H   | 19       | 5.03          |
| (1,562)  | 1:A:1:SER:HB3   | 1:A:21:SER:H   | 19       | 5.03          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 4        | 5.03          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 4        | 5.03          |
| (1,4652) | 1:A:26:CYS:HB2  | 1:A:28:SER:HB3 | 16       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 1        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 1        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 2        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 2        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 11       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 11       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 12       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 12       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1 | 13       | 5.03          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2 | 13       | 5.03          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 8        | 5.03          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 8        | 5.03          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 8        | 5.03          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 8        | 5.03          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 9        | 5.03          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 9        | 5.03          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 20       | 5.03          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 20       | 5.03          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 6        | 5.03          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 5        | 5.03          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 5        | 5.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 8        | 5.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 8        | 5.03          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 8        | 5.03          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 5        | 5.03          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 2        | 5.03          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 11       | 5.03          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 1        | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 2        | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 5        | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 10       | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 13       | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 14       | 5.03          |
| (1,4109) | 1:A:22:GLN:H   | 1:A:26:CYS:H   | 15       | 5.03          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H   | 2        | 5.03          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2 | 8        | 5.03          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG3 | 8        | 5.03          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 7        | 5.03          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 8        | 5.03          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 20       | 5.03          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H   | 8        | 5.03          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2 | 13       | 5.03          |
| (1,3405) | 1:A:15:ARG:HD2 | 1:A:27:GLY:H   | 19       | 5.03          |
| (1,3405) | 1:A:15:ARG:HD3 | 1:A:27:GLY:H   | 19       | 5.03          |
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 4        | 5.03          |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 4        | 5.03          |
| (1,3305) | 1:A:15:ARG:HB2 | 1:A:26:CYS:H   | 1        | 5.03          |
| (1,3291) | 1:A:15:ARG:HB2 | 1:A:19:CYS:HA  | 3        | 5.03          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 1        | 5.03          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 1        | 5.03          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 13       | 5.03          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 13       | 5.03          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 12       | 5.03          |
| (1,3162) | 1:A:13:GLY:HA3 | 1:A:26:CYS:H   | 3        | 5.03          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3 | 12       | 5.03          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2 | 1        | 5.03          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1 | 14       | 5.03          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2 | 14       | 5.03          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 1        | 5.03          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2 | 5        | 5.03          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 4        | 5.03          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 7        | 5.03          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 9        | 5.03          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 11       | 5.03          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 13       | 5.03          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 13       | 5.03          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 13       | 5.03          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 9        | 5.03          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 12       | 5.03          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1758) | 1:A:6:GLN:HG3   | 1:A:21:SER:H    | 6        | 5.03          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG2   | 12       | 5.03          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3   | 12       | 5.03          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG2   | 13       | 5.03          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3   | 13       | 5.03          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA   | 18       | 5.03          |
| (1,1285) | 1:A:4:ASN:HD21  | 1:A:26:CYS:H    | 9        | 5.03          |
| (1,1217) | 1:A:4:ASN:HB3   | 1:A:23:TYR:HB2  | 10       | 5.03          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2  | 8        | 5.03          |
| (1,1063) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ2  | 16       | 5.03          |
| (1,956)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HE1  | 14       | 5.02          |
| (1,762)  | 1:A:3:PRO:HA    | 1:A:26:CYS:HB2  | 14       | 5.02          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3   | 15       | 5.02          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H     | 9        | 5.02          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD11 | 10       | 5.02          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD12 | 10       | 5.02          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD13 | 10       | 5.02          |
| (1,551)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HH2  | 18       | 5.02          |
| (1,551)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HH2  | 18       | 5.02          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD1  | 10       | 5.02          |
| (1,527)  | 1:A:1:SER:HA    | 1:A:25:TYR:HD2  | 10       | 5.02          |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2  | 6        | 5.02          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2  | 13       | 5.02          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3  | 13       | 5.02          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3  | 20       | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1  | 4        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2  | 4        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1  | 8        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2  | 8        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1  | 9        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2  | 9        | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD1  | 15       | 5.02          |
| (1,4497) | 1:A:24:GLY:HA3  | 1:A:32:TYR:HD2  | 15       | 5.02          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2  | 5        | 5.02          |
| (1,4444) | 1:A:24:GLY:H    | 1:A:26:CYS:HB2  | 10       | 5.02          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA   | 18       | 5.02          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA   | 18       | 5.02          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 2        | 5.02          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 2        | 5.02          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 2        | 5.02          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 2        | 5.02          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 14       | 5.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4236) | 1:A:22:GLN:HB3 | 1:A:32:TYR:H   | 15       | 5.02          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD1 | 5        | 5.02          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD2 | 5        | 5.02          |
| (1,4091) | 1:A:21:SER:HG  | 1:A:32:TYR:H   | 18       | 5.02          |
| (1,4091) | 1:A:21:SER:HG  | 1:A:32:TYR:H   | 19       | 5.02          |
| (1,4091) | 1:A:21:SER:HG  | 1:A:32:TYR:H   | 20       | 5.02          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H   | 14       | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 2        | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 3        | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 4        | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 5        | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 6        | 5.02          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 13       | 5.02          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD1 | 7        | 5.02          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2 | 7        | 5.02          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 9        | 5.02          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H   | 3        | 5.02          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2 | 1        | 5.02          |
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H   | 1        | 5.02          |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H   | 1        | 5.02          |
| (1,3291) | 1:A:15:ARG:HB2 | 1:A:19:CYS:HA  | 2        | 5.02          |
| (1,3291) | 1:A:15:ARG:HB2 | 1:A:19:CYS:HA  | 4        | 5.02          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 17       | 5.02          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE  | 4        | 5.02          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3 | 11       | 5.02          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 1        | 5.02          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 1        | 5.02          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 3        | 5.02          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 16       | 5.02          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 19       | 5.02          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 20       | 5.02          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA  | 3        | 5.02          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 3        | 5.02          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA  | 13       | 5.02          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 13       | 5.02          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 1        | 5.02          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 1        | 5.02          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 1        | 5.02          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 2        | 5.02          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 5        | 5.02          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 10       | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 7        | 5.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3  | 7        | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG2  | 8        | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3  | 8        | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG2  | 16       | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3  | 16       | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG2  | 20       | 5.02          |
| (1,1620) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HG3  | 20       | 5.02          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H   | 5        | 5.02          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H   | 10       | 5.02          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H   | 14       | 5.02          |
| (1,1522) | 1:A:6:GLN:H     | 1:A:21:SER:HG  | 7        | 5.02          |
| (1,1480) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HG  | 10       | 5.02          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA  | 8        | 5.02          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA  | 12       | 5.02          |
| (1,1285) | 1:A:4:ASN:HD21  | 1:A:26:CYS:H   | 1        | 5.02          |
| (1,1285) | 1:A:4:ASN:HD21  | 1:A:26:CYS:H   | 15       | 5.02          |
| (1,956)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HE1 | 6        | 5.01          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 13       | 5.01          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H    | 8        | 5.01          |
| (1,714)  | 1:A:2:GLY:HA3   | 1:A:8:GLY:H    | 12       | 5.01          |
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB2 | 5        | 5.01          |
| (1,617)  | 1:A:2:GLY:H     | 1:A:14:CYS:HB3 | 5        | 5.01          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG  | 6        | 5.01          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG  | 6        | 5.01          |
| (1,513)  | 1:A:1:SER:HA    | 1:A:14:CYS:HB2 | 4        | 5.01          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3 | 18       | 5.01          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3 | 18       | 5.01          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2 | 15       | 5.01          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2 | 20       | 5.01          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE1 | 7        | 5.01          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE2 | 7        | 5.01          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 8        | 5.01          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 8        | 5.01          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 8        | 5.01          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA  | 5        | 5.01          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA  | 5        | 5.01          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2 | 1        | 5.01          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2 | 3        | 5.01          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3 | 3        | 5.01          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 18       | 5.01          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 18       | 5.01          |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H   | 4        | 5.01          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4091) | 1:A:21:SER:HG  | 1:A:32:TYR:H   | 16       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1 | 16       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2 | 16       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1 | 18       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2 | 18       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1 | 20       | 5.01          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2 | 20       | 5.01          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 10       | 5.01          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H   | 17       | 5.01          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 11       | 5.01          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H   | 15       | 5.01          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H   | 5        | 5.01          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H   | 6        | 5.01          |
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 2        | 5.01          |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 2        | 5.01          |
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 3        | 5.01          |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 3        | 5.01          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 11       | 5.01          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 11       | 5.01          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3 | 12       | 5.01          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 14       | 5.01          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H   | 3        | 5.01          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 13       | 5.01          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 13       | 5.01          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H   | 2        | 5.01          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H   | 10       | 5.01          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE1 | 14       | 5.01          |
| (1,2700) | 1:A:11:TRP:HB3 | 1:A:25:TYR:HE2 | 14       | 5.01          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 18       | 5.01          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 8        | 5.01          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 18       | 5.01          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA  | 11       | 5.01          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA  | 11       | 5.01          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 17       | 5.01          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 17       | 5.01          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 17       | 5.01          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 8        | 5.01          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 1        | 5.01          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 9        | 5.01          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 9        | 5.01          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 18       | 5.01          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 18       | 5.01          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG2  | 19       | 5.01          |
| (1,1620) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HG3  | 19       | 5.01          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 17       | 5.01          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 9        | 5.01          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 9        | 5.01          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA  | 7        | 5.01          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H   | 9        | 5.01          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 1        | 5.01          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1 | 10       | 5.0           |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 1        | 5.0           |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 9        | 5.0           |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 3        | 5.0           |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 15       | 5.0           |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 15       | 5.0           |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 15       | 5.0           |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 15       | 5.0           |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 13       | 5.0           |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 13       | 5.0           |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H   | 8        | 5.0           |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H   | 8        | 5.0           |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H   | 8        | 5.0           |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H   | 18       | 5.0           |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H   | 18       | 5.0           |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 9        | 5.0           |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2 | 20       | 5.0           |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2 | 2        | 5.0           |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3 | 2        | 5.0           |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 13       | 5.0           |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 19       | 5.0           |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 15       | 5.0           |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 15       | 5.0           |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 18       | 5.0           |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 19       | 5.0           |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3 | 20       | 5.0           |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD2 | 8        | 5.0           |
| (1,4518) | 1:A:25:TYR:H   | 1:A:31:LYS:HD3 | 8        | 5.0           |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA  | 12       | 5.0           |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA  | 12       | 5.0           |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H   | 19       | 5.0           |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H   | 19       | 5.0           |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3 | 1        | 5.0           |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2 | 13       | 5.0           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3  | 13       | 5.0           |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 1        | 5.0           |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 1        | 5.0           |
| (1,4294) | 1:A:22:GLN:HE21 | 1:A:33:CYS:H    | 17       | 5.0           |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 18       | 5.0           |
| (1,4200) | 1:A:22:GLN:HG2  | 1:A:33:CYS:H    | 14       | 5.0           |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H    | 19       | 5.0           |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1  | 12       | 5.0           |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2  | 12       | 5.0           |
| (1,4091) | 1:A:21:SER:HG   | 1:A:32:TYR:H    | 2        | 5.0           |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 14       | 5.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 9        | 5.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 9        | 5.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2  | 16       | 5.0           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3  | 16       | 5.0           |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 19       | 5.0           |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 19       | 5.0           |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA   | 8        | 5.0           |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H    | 12       | 5.0           |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H    | 14       | 5.0           |
| (1,3727) | 1:A:18:LEU:HG   | 1:A:20:CYS:H    | 1        | 5.0           |
| (1,3727) | 1:A:18:LEU:HG   | 1:A:20:CYS:H    | 13       | 5.0           |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H    | 13       | 5.0           |
| (1,3721) | 1:A:18:LEU:HB3  | 1:A:32:TYR:H    | 14       | 5.0           |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2  | 14       | 5.0           |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2  | 19       | 5.0           |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H    | 3        | 5.0           |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 1        | 5.0           |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 1        | 5.0           |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 17       | 5.0           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA   | 3        | 5.0           |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H    | 8        | 5.0           |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 4        | 5.0           |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H    | 2        | 5.0           |
| (1,3148) | 1:A:13:GLY:HA3  | 1:A:18:LEU:H    | 4        | 5.0           |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H    | 3        | 5.0           |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H    | 5        | 5.0           |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE1  | 15       | 5.0           |
| (1,2700) | 1:A:11:TRP:HB3  | 1:A:25:TYR:HE2  | 15       | 5.0           |
| (1,2488) | 1:A:10:GLY:HA2  | 1:A:11:TRP:HH2  | 15       | 5.0           |
| (1,2059) | 1:A:8:GLY:H     | 1:A:26:CYS:HA   | 7        | 5.0           |
| (1,2059) | 1:A:8:GLY:H     | 1:A:26:CYS:HA   | 16       | 5.0           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA   | 19       | 5.0           |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 8        | 5.0           |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 15       | 5.0           |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 15       | 5.0           |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 16       | 5.0           |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H    | 20       | 5.0           |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA   | 17       | 5.0           |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 3        | 5.0           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 20       | 5.0           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 20       | 5.0           |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 15       | 5.0           |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 2        | 5.0           |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 18       | 5.0           |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 8        | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 11       | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 11       | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 11       | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 11       | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 11       | 5.0           |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 11       | 5.0           |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 4        | 5.0           |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 4        | 5.0           |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 15       | 4.99          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 16       | 4.99          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 12       | 4.99          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 12       | 4.99          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 12       | 4.99          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2  | 14       | 4.99          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3  | 14       | 4.99          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 2        | 4.99          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 20       | 4.99          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 20       | 4.99          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 20       | 4.99          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 3        | 4.99          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 3        | 4.99          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 1        | 4.99          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 15       | 4.99          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 12       | 4.99          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 12       | 4.99          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 12       | 4.99          |
| (1,4395) | 1:A:23:TYR:HD1 | 1:A:27:GLY:H    | 16       | 4.99          |
| (1,4395) | 1:A:23:TYR:HD2 | 1:A:27:GLY:H    | 16       | 4.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD1  | 13       | 4.99          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD2  | 13       | 4.99          |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE2  | 2        | 4.99          |
| (1,4090) | 1:A:21:SER:HG  | 1:A:31:LYS:HE3  | 2        | 4.99          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 13       | 4.99          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 12       | 4.99          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 17       | 4.99          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 4        | 4.99          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H    | 15       | 4.99          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 4        | 4.99          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 10       | 4.99          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 14       | 4.99          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 15       | 4.99          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 16       | 4.99          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 15       | 4.99          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 2        | 4.99          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 4        | 4.99          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 2        | 4.99          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 17       | 4.99          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 18       | 4.99          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 2        | 4.99          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 4        | 4.99          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 10       | 4.99          |
| (1,3307) | 1:A:15:ARG:HB2 | 1:A:27:GLY:HA2  | 15       | 4.99          |
| (1,3241) | 1:A:14:CYS:HB3 | 1:A:25:TYR:H    | 14       | 4.99          |
| (1,3221) | 1:A:14:CYS:HB2 | 1:A:33:CYS:HA   | 2        | 4.99          |
| (1,3221) | 1:A:14:CYS:HB2 | 1:A:33:CYS:HA   | 4        | 4.99          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H    | 20       | 4.99          |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3  | 17       | 4.99          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H    | 10       | 4.99          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H    | 14       | 4.99          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 11       | 4.99          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 11       | 4.99          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H    | 6        | 4.99          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 9        | 4.99          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 20       | 4.99          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 20       | 4.99          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 7        | 4.99          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 9        | 4.99          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 18       | 4.99          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 19       | 4.99          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 20       | 4.99          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 5        | 4.99          |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 5        | 4.99          |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 6        | 4.99          |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 6        | 4.99          |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H   | 2        | 4.99          |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H   | 2        | 4.99          |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H   | 4        | 4.99          |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H   | 4        | 4.99          |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H   | 10       | 4.99          |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H   | 10       | 4.99          |
| (1,1990) | 1:A:7:CYS:HB2   | 1:A:18:LEU:H   | 14       | 4.99          |
| (1,1990) | 1:A:7:CYS:HB3   | 1:A:18:LEU:H   | 14       | 4.99          |
| (1,1833) | 1:A:6:GLN:HE21  | 1:A:26:CYS:H   | 11       | 4.99          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 17       | 4.99          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 17       | 4.99          |
| (1,1643) | 1:A:6:GLN:HB3   | 1:A:20:CYS:HB2 | 15       | 4.99          |
| (1,1643) | 1:A:6:GLN:HB3   | 1:A:20:CYS:HB3 | 15       | 4.99          |
| (1,1522) | 1:A:6:GLN:H     | 1:A:21:SER:HG  | 4        | 4.99          |
| (1,1460) | 1:A:5:GLY:HA2   | 1:A:27:GLY:HA3 | 6        | 4.99          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA  | 11       | 4.99          |
| (1,1404) | 1:A:5:GLY:H     | 1:A:11:TRP:HA  | 16       | 4.99          |
| (1,1132) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HH2 | 3        | 4.99          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2 | 20       | 4.99          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 20       | 4.98          |
| (1,577)  | 1:A:1:SER:HB2   | 1:A:27:GLY:H   | 14       | 4.98          |
| (1,577)  | 1:A:1:SER:HB3   | 1:A:27:GLY:H   | 14       | 4.98          |
| (1,4926) | 1:A:32:TYR:HB3  | 1:A:35:HIS:H   | 13       | 4.98          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 18       | 4.98          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 13       | 4.98          |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 19       | 4.98          |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H   | 19       | 4.98          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 2        | 4.98          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 2        | 4.98          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE2 | 18       | 4.98          |
| (1,4455) | 1:A:24:GLY:H    | 1:A:31:LYS:HE3 | 18       | 4.98          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 3        | 4.98          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 3        | 4.98          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 17       | 4.98          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 17       | 4.98          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 4        | 4.98          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 4        | 4.98          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 4        | 4.98          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 10       | 4.98          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 10       | 4.98          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 15       | 4.98          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 15       | 4.98          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 13       | 4.98          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 13       | 4.98          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 4        | 4.98          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 4        | 4.98          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 1        | 4.98          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 13       | 4.98          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 18       | 4.98          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 7        | 4.98          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 1        | 4.98          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 8        | 4.98          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 11       | 4.98          |
| (1,3727) | 1:A:18:LEU:HG   | 1:A:20:CYS:H   | 2        | 4.98          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 12       | 4.98          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 10       | 4.98          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 4        | 4.98          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 7        | 4.98          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 5        | 4.98          |
| (1,3325) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HB2 | 13       | 4.98          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 10       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 7        | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 7        | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 9        | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 9        | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 18       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 18       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 19       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 19       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 20       | 4.98          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 20       | 4.98          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H   | 6        | 4.98          |
| (1,3151) | 1:A:13:GLY:HA3  | 1:A:21:SER:H   | 17       | 4.98          |
| (1,2198) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HZ2 | 14       | 4.98          |
| (1,2198) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HZ2 | 17       | 4.98          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 9        | 4.98          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 13       | 4.98          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 15       | 4.98          |
| (1,2059) | 1:A:8:GLY:H     | 1:A:26:CYS:HA  | 12       | 4.98          |
| (1,2044) | 1:A:8:GLY:H     | 1:A:21:SER:H   | 16       | 4.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 20       | 4.98          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 20       | 4.98          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 20       | 4.98          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 20       | 4.98          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 3        | 4.98          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 3        | 4.98          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 7        | 4.98          |
| (1,1662) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HA  | 11       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 1        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 1        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 4        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 4        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 5        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 5        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 6        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 6        | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 10       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 10       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 11       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 11       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 13       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 13       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 14       | 4.98          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 14       | 4.98          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 3        | 4.98          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 3        | 4.98          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 3        | 4.98          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 4        | 4.97          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 4        | 4.97          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 7        | 4.97          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 8        | 4.97          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 12       | 4.97          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 11       | 4.97          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 16       | 4.97          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 16       | 4.97          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 16       | 4.97          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 16       | 4.97          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 2        | 4.97          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 2        | 4.97          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 2        | 4.97          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 2        | 4.97          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 5        | 4.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 5        | 4.97          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE   | 16       | 4.97          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE   | 16       | 4.97          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 3        | 4.97          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 3        | 4.97          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 11       | 4.97          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 11       | 4.97          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 11       | 4.97          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 11       | 4.97          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H    | 14       | 4.97          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 18       | 4.97          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 16       | 4.97          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 4        | 4.97          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 1        | 4.97          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 1        | 4.97          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 18       | 4.97          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 18       | 4.97          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2  | 4        | 4.97          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA   | 19       | 4.97          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA   | 19       | 4.97          |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H    | 6        | 4.97          |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H    | 6        | 4.97          |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H    | 11       | 4.97          |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H    | 11       | 4.97          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2  | 14       | 4.97          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3  | 14       | 4.97          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1  | 17       | 4.97          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2  | 17       | 4.97          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H    | 18       | 4.97          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H    | 19       | 4.97          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2  | 10       | 4.97          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3  | 10       | 4.97          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 11       | 4.97          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 2        | 4.97          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 20       | 4.97          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 3        | 4.97          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 5        | 4.97          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 6        | 4.97          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 18       | 4.97          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 19       | 4.97          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 20       | 4.97          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 7        | 4.97          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2 | 11       | 4.97          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H   | 17       | 4.97          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 5        | 4.97          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 5        | 4.97          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 8        | 4.97          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 8        | 4.97          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA2 | 16       | 4.97          |
| (1,3240) | 1:A:14:CYS:HB3 | 1:A:24:GLY:HA3 | 16       | 4.97          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3 | 8        | 4.97          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 9        | 4.97          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2 | 17       | 4.97          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3 | 17       | 4.97          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H   | 4        | 4.97          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 7        | 4.97          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 8        | 4.97          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 12       | 4.97          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 18       | 4.97          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 19       | 4.97          |
| (1,2124) | 1:A:8:GLY:HA3  | 1:A:26:CYS:H   | 17       | 4.97          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 8        | 4.97          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 2        | 4.97          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 10       | 4.97          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 12       | 4.97          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 14       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 18       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 18       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 18       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 18       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 19       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 19       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 19       | 4.97          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 19       | 4.97          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2 | 14       | 4.97          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3 | 14       | 4.97          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 18       | 4.97          |
| (1,1758) | 1:A:6:GLN:HG3  | 1:A:21:SER:H   | 19       | 4.97          |
| (1,1742) | 1:A:6:GLN:HG3  | 1:A:11:TRP:H   | 17       | 4.97          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 2        | 4.97          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 2        | 4.97          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 3        | 4.97          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 3        | 4.97          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 18       | 4.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 18       | 4.97          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 4        | 4.97          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 14       | 4.97          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 19       | 4.97          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 5        | 4.96          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 11       | 4.96          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 4        | 4.96          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 3        | 4.96          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 4        | 4.96          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 17       | 4.96          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1  | 20       | 4.96          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1  | 20       | 4.96          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3  | 19       | 4.96          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2  | 6        | 4.96          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 2        | 4.96          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 10       | 4.96          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2  | 11       | 4.96          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3  | 11       | 4.96          |
| (1,4270) | 1:A:22:GLN:HG3 | 1:A:35:HIS:H    | 9        | 4.96          |
| (1,4202) | 1:A:22:GLN:HG2 | 1:A:33:CYS:HA   | 14       | 4.96          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H    | 11       | 4.96          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H    | 20       | 4.96          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 5        | 4.96          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 5        | 4.96          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 3        | 4.96          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 3        | 4.96          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 6        | 4.96          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 6        | 4.96          |
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG2  | 4        | 4.96          |
| (1,4035) | 1:A:21:SER:H   | 1:A:31:LYS:HG3  | 4        | 4.96          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 13       | 4.96          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 16       | 4.96          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 18       | 4.96          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 19       | 4.96          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 1        | 4.96          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA   | 9        | 4.96          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA   | 9        | 4.96          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 3        | 4.96          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 15       | 4.96          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 15       | 4.96          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H    | 14       | 4.96          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 1        | 4.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 1        | 4.96          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 15       | 4.96          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 15       | 4.96          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 16       | 4.96          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 4        | 4.96          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1  | 16       | 4.96          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2  | 16       | 4.96          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1  | 16       | 4.96          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2  | 16       | 4.96          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H    | 6        | 4.96          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H    | 6        | 4.96          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 17       | 4.96          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 8        | 4.96          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 16       | 4.96          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 18       | 4.96          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H    | 20       | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2  | 8        | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3  | 8        | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2  | 12       | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3  | 12       | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2  | 20       | 4.96          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3  | 20       | 4.96          |
| (1,1555) | 1:A:6:GLN:HA   | 1:A:11:TRP:HH2  | 17       | 4.96          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 19       | 4.96          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 19       | 4.96          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 9        | 4.96          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 13       | 4.95          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 19       | 4.95          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 2        | 4.95          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 2        | 4.95          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 2        | 4.95          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 2        | 4.95          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 16       | 4.95          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H    | 16       | 4.95          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG   | 4        | 4.95          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 4        | 4.95          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 14       | 4.95          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 14       | 4.95          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1  | 7        | 4.95          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1  | 7        | 4.95          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1  | 7        | 4.95          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 12       | 4.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 12       | 4.95          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 12       | 4.95          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 12       | 4.95          |
| (1,4444) | 1:A:24:GLY:H   | 1:A:26:CYS:HB2  | 3        | 4.95          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2  | 1        | 4.95          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3  | 1        | 4.95          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2  | 1        | 4.95          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3  | 1        | 4.95          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2  | 2        | 4.95          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3  | 2        | 4.95          |
| (1,4249) | 1:A:22:GLN:HG3 | 1:A:25:TYR:H    | 9        | 4.95          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1  | 19       | 4.95          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2  | 19       | 4.95          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 11       | 4.95          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 11       | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 4        | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 4        | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 12       | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 12       | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB2  | 14       | 4.95          |
| (1,4040) | 1:A:21:SER:H   | 1:A:33:CYS:HB3  | 14       | 4.95          |
| (1,4018) | 1:A:21:SER:H   | 1:A:23:TYR:HE1  | 17       | 4.95          |
| (1,4018) | 1:A:21:SER:H   | 1:A:23:TYR:HE2  | 17       | 4.95          |
| (1,4014) | 1:A:21:SER:H   | 1:A:22:GLN:HG3  | 9        | 4.95          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 15       | 4.95          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1  | 2        | 4.95          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2  | 2        | 4.95          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD1  | 10       | 4.95          |
| (1,3992) | 1:A:20:CYS:HB3 | 1:A:25:TYR:HD2  | 10       | 4.95          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 15       | 4.95          |
| (1,3903) | 1:A:19:CYS:HB3 | 1:A:31:LYS:HA   | 17       | 4.95          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H    | 16       | 4.95          |
| (1,3899) | 1:A:19:CYS:HB3 | 1:A:26:CYS:H    | 20       | 4.95          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD1  | 9        | 4.95          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2  | 9        | 4.95          |
| (1,3727) | 1:A:18:LEU:HG  | 1:A:20:CYS:H    | 17       | 4.95          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 6        | 4.95          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 8        | 4.95          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 9        | 4.95          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB2  | 3        | 4.95          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB3  | 3        | 4.95          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H    | 20       | 4.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3 | 13       | 4.95          |
| (1,3308) | 1:A:15:ARG:HB2 | 1:A:28:SER:H   | 11       | 4.95          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 18       | 4.95          |
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 19       | 4.95          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 4        | 4.95          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H   | 20       | 4.95          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 17       | 4.95          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H   | 12       | 4.95          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 15       | 4.95          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 3        | 4.95          |
| (1,1990) | 1:A:7:CYS:HB2  | 1:A:18:LEU:H   | 5        | 4.95          |
| (1,1990) | 1:A:7:CYS:HB3  | 1:A:18:LEU:H   | 5        | 4.95          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 7        | 4.95          |
| (1,1833) | 1:A:6:GLN:HE21 | 1:A:26:CYS:H   | 19       | 4.95          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA  | 4        | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 7        | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 7        | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 9        | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 9        | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 16       | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 16       | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 18       | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 18       | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB2 | 19       | 4.95          |
| (1,1643) | 1:A:6:GLN:HB3  | 1:A:20:CYS:HB3 | 19       | 4.95          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 12       | 4.95          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 12       | 4.95          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 17       | 4.95          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 17       | 4.95          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 6        | 4.95          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG  | 5        | 4.95          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 17       | 4.95          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 16       | 4.95          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 16       | 4.95          |
| (1,1217) | 1:A:4:ASN:HB3  | 1:A:23:TYR:HB2 | 2        | 4.95          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 10       | 4.95          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2 | 19       | 4.95          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 3        | 4.94          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 3        | 4.94          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 18       | 4.94          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 4        | 4.94          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H   | 14       | 4.94          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4906) | 1:A:31:LYS:HE3  | 1:A:35:HIS:H   | 14       | 4.94          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 19       | 4.94          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 19       | 4.94          |
| (1,4896) | 1:A:31:LYS:HB3  | 1:A:33:CYS:HA  | 6        | 4.94          |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H   | 1        | 4.94          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 19       | 4.94          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 19       | 4.94          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 11       | 4.94          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 11       | 4.94          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 3        | 4.94          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 3        | 4.94          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 3        | 4.94          |
| (1,4395) | 1:A:23:TYR:HD1  | 1:A:27:GLY:H   | 2        | 4.94          |
| (1,4395) | 1:A:23:TYR:HD2  | 1:A:27:GLY:H   | 2        | 4.94          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 12       | 4.94          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 12       | 4.94          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 9        | 4.94          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 9        | 4.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 20       | 4.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 20       | 4.94          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 20       | 4.94          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 1        | 4.94          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 1        | 4.94          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 8        | 4.94          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 8        | 4.94          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 8        | 4.94          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 1        | 4.94          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 10       | 4.94          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 10       | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 2        | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 2        | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 5        | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 5        | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 13       | 4.94          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 13       | 4.94          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 8        | 4.94          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 11       | 4.94          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 18       | 4.94          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 19       | 4.94          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 2        | 4.94          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 4        | 4.94          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 3        | 4.94          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 13       | 4.94          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H    | 15       | 4.94          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 9        | 4.94          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H    | 8        | 4.94          |
| (1,3342) | 1:A:15:ARG:HB3 | 1:A:27:GLY:H    | 1        | 4.94          |
| (1,3231) | 1:A:14:CYS:HB3 | 1:A:21:SER:HG   | 14       | 4.94          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 9        | 4.94          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 2        | 4.94          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 8        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 2        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 3        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 4        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 5        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 6        | 4.94          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 10       | 4.94          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 5        | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 2        | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 2        | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 6        | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 6        | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 10       | 4.94          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 10       | 4.94          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 18       | 4.94          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 20       | 4.94          |
| (1,1404) | 1:A:5:GLY:H    | 1:A:11:TRP:HA   | 13       | 4.94          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 13       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 14       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 14       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 14       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 14       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 14       | 4.94          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 14       | 4.94          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 18       | 4.94          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 6        | 4.93          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 14       | 4.93          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 17       | 4.93          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 17       | 4.93          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 17       | 4.93          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 17       | 4.93          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 15       | 4.93          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 15       | 4.93          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H    | 17       | 4.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,560)  | 1:A:1:SER:HB3   | 1:A:19:CYS:H   | 17       | 4.93          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG  | 3        | 4.93          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG  | 3        | 4.93          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 2        | 4.93          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 2        | 4.93          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 2        | 4.93          |
| (1,4896) | 1:A:31:LYS:HB3  | 1:A:33:CYS:HA  | 1        | 4.93          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H   | 3        | 4.93          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H   | 3        | 4.93          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 12       | 4.93          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 12       | 4.93          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 12       | 4.93          |
| (1,4682) | 1:A:27:GLY:H    | 1:A:31:LYS:HB3 | 16       | 4.93          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 6        | 4.93          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 6        | 4.93          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 6        | 4.93          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 14       | 4.93          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 14       | 4.93          |
| (1,4202) | 1:A:22:GLN:HG2  | 1:A:33:CYS:HA  | 17       | 4.93          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 1        | 4.93          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 1        | 4.93          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 8        | 4.93          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 8        | 4.93          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 15       | 4.93          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 15       | 4.93          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 12       | 4.93          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 6        | 4.93          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 6        | 4.93          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 1        | 4.93          |
| (1,3903) | 1:A:19:CYS:HB3  | 1:A:31:LYS:HA  | 9        | 4.93          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 8        | 4.93          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 9        | 4.93          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 16       | 4.93          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 16       | 4.93          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 16       | 4.93          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 12       | 4.93          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 12       | 4.93          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 5        | 4.93          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 8        | 4.93          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 2        | 4.93          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 2        | 4.93          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 3        | 4.93          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3220) | 1:A:14:CYS:HB2 | 1:A:33:CYS:H   | 16       | 4.93          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2 | 14       | 4.93          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3 | 14       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 7        | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 8        | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 9        | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 11       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 12       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 14       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 16       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 18       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 19       | 4.93          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H   | 20       | 4.93          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2 | 11       | 4.93          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H   | 6        | 4.93          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2 | 4        | 4.93          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3 | 4        | 4.93          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2 | 7        | 4.93          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2 | 8        | 4.93          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2 | 16       | 4.93          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2 | 19       | 4.93          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA  | 6        | 4.93          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 1        | 4.93          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 1        | 4.93          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 15       | 4.93          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 15       | 4.93          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2 | 17       | 4.93          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG  | 5        | 4.93          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2 | 7        | 4.93          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3 | 7        | 4.93          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG  | 5        | 4.93          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 2        | 4.93          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 2        | 4.93          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2  | 6        | 4.93          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3  | 6        | 4.93          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H    | 5        | 4.92          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 10       | 4.92          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 10       | 4.92          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 8        | 4.92          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 8        | 4.92          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H   | 7        | 4.92          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H   | 7        | 4.92          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4896) | 1:A:31:LYS:HB3  | 1:A:33:CYS:HA  | 15       | 4.92          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 12       | 4.92          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE1 | 5        | 4.92          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE2 | 5        | 4.92          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 16       | 4.92          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 1        | 4.92          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 1        | 4.92          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 1        | 4.92          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 1        | 4.92          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 4        | 4.92          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 11       | 4.92          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 11       | 4.92          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 15       | 4.92          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 15       | 4.92          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 15       | 4.92          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 15       | 4.92          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2 | 20       | 4.92          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3 | 20       | 4.92          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 20       | 4.92          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 20       | 4.92          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 18       | 4.92          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 18       | 4.92          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 20       | 4.92          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 20       | 4.92          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 12       | 4.92          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 12       | 4.92          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 4        | 4.92          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 4        | 4.92          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 13       | 4.92          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 13       | 4.92          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 1        | 4.92          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 11       | 4.92          |
| (1,3899) | 1:A:19:CYS:HB3  | 1:A:26:CYS:H   | 7        | 4.92          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 10       | 4.92          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 9        | 4.92          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 12       | 4.92          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 16       | 4.92          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 14       | 4.92          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 4        | 4.92          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 4        | 4.92          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 12       | 4.92          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 13       | 4.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H    | 5        | 4.92          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H    | 6        | 4.92          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2  | 14       | 4.92          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3  | 14       | 4.92          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 3        | 4.92          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 4        | 4.92          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 6        | 4.92          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 1        | 4.92          |
| (1,2937) | 1:A:11:TRP:HZ2 | 1:A:12:GLY:H    | 15       | 4.92          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 1        | 4.92          |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 1        | 4.92          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2  | 17       | 4.92          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 1        | 4.92          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 15       | 4.92          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE1  | 17       | 4.92          |
| (1,2123) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HE2  | 17       | 4.92          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA   | 10       | 4.92          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 3        | 4.92          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 3        | 4.92          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 5        | 4.92          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 5        | 4.92          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 9        | 4.92          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 12       | 4.92          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 3        | 4.92          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 17       | 4.92          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 16       | 4.92          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 16       | 4.92          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 10       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 16       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 16       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 16       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 16       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 16       | 4.92          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 16       | 4.92          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 4        | 4.92          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 5        | 4.92          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 5        | 4.92          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB2   | 10       | 4.92          |
| (1,1054) | 1:A:4:ASN:H    | 1:A:7:CYS:HB3   | 10       | 4.92          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 3        | 4.91          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 6        | 4.91          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 13       | 4.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 13       | 4.91          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 13       | 4.91          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 2        | 4.91          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 2        | 4.91          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 2        | 4.91          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 2        | 4.91          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD1  | 5        | 4.91          |
| (1,527)  | 1:A:1:SER:HA   | 1:A:25:TYR:HD2  | 5        | 4.91          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 2        | 4.91          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3  | 7        | 4.91          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3  | 7        | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 17       | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 17       | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 17       | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 19       | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 19       | 4.91          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 19       | 4.91          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 7        | 4.91          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 9        | 4.91          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 9        | 4.91          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 3        | 4.91          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 3        | 4.91          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 6        | 4.91          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 6        | 4.91          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 7        | 4.91          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 7        | 4.91          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 7        | 4.91          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2  | 8        | 4.91          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3  | 8        | 4.91          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD2  | 8        | 4.91          |
| (1,4683) | 1:A:27:GLY:H   | 1:A:31:LYS:HD3  | 8        | 4.91          |
| (1,4682) | 1:A:27:GLY:H   | 1:A:31:LYS:HB3  | 18       | 4.91          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 11       | 4.91          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2  | 11       | 4.91          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3  | 11       | 4.91          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3  | 11       | 4.91          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 12       | 4.91          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 12       | 4.91          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 12       | 4.91          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 12       | 4.91          |
| (1,4418) | 1:A:23:TYR:HE1 | 1:A:27:GLY:HA2  | 16       | 4.91          |
| (1,4418) | 1:A:23:TYR:HE2 | 1:A:27:GLY:HA2  | 16       | 4.91          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 16       | 4.91          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 16       | 4.91          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 20       | 4.91          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 20       | 4.91          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 20       | 4.91          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 20       | 4.91          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2  | 9        | 4.91          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3  | 9        | 4.91          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 20       | 4.91          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1  | 20       | 4.91          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2  | 20       | 4.91          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3  | 20       | 4.91          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 18       | 4.91          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 4        | 4.91          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 4        | 4.91          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 12       | 4.91          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 12       | 4.91          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 13       | 4.91          |
| (1,4236) | 1:A:22:GLN:HB3  | 1:A:32:TYR:H    | 16       | 4.91          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 1        | 4.91          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 1        | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2  | 1        | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3  | 1        | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2  | 11       | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3  | 11       | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2  | 20       | 4.91          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3  | 20       | 4.91          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 1        | 4.91          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 1        | 4.91          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1  | 3        | 4.91          |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2  | 3        | 4.91          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1  | 10       | 4.91          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2  | 10       | 4.91          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3  | 10       | 4.91          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 12       | 4.91          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 12       | 4.91          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 12       | 4.91          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 11       | 4.91          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 11       | 4.91          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 13       | 4.91          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 13       | 4.91          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3  | 8        | 4.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3545) | 1:A:16:GLY:HA3 | 1:A:33:CYS:HB3  | 2        | 4.91          |
| (1,3545) | 1:A:16:GLY:HA3 | 1:A:33:CYS:HB3  | 4        | 4.91          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE   | 14       | 4.91          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 6        | 4.91          |
| (1,3148) | 1:A:13:GLY:HA3 | 1:A:18:LEU:H    | 17       | 4.91          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 2        | 4.91          |
| (1,3048) | 1:A:12:GLY:HA3 | 1:A:14:CYS:HB2  | 5        | 4.91          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 11       | 4.91          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA   | 2        | 4.91          |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 18       | 4.91          |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 18       | 4.91          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 10       | 4.91          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 11       | 4.91          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 11       | 4.91          |
| (1,1522) | 1:A:6:GLN:H    | 1:A:21:SER:HG   | 2        | 4.91          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3  | 5        | 4.91          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 9        | 4.91          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 6        | 4.91          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 16       | 4.91          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 14       | 4.91          |
| (1,714)  | 1:A:2:GLY:HA3  | 1:A:8:GLY:H     | 10       | 4.9           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 15       | 4.9           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 15       | 4.9           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 15       | 4.9           |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 13       | 4.9           |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 13       | 4.9           |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 13       | 4.9           |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 13       | 4.9           |
| (1,550)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ2  | 9        | 4.9           |
| (1,550)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ2  | 9        | 4.9           |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 8        | 4.9           |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 8        | 4.9           |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 7        | 4.9           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 12       | 4.9           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 12       | 4.9           |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 17       | 4.9           |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 17       | 4.9           |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 9        | 4.9           |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 9        | 4.9           |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2  | 8        | 4.9           |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3  | 8        | 4.9           |
| (1,4684) | 1:A:27:GLY:H   | 1:A:31:LYS:HZ1  | 6        | 4.9           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ2 | 6        | 4.9           |
| (1,4684) | 1:A:27:GLY:H    | 1:A:31:LYS:HZ3 | 6        | 4.9           |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2 | 8        | 4.9           |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3 | 8        | 4.9           |
| (1,4333) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HA  | 15       | 4.9           |
| (1,4288) | 1:A:22:GLN:HE21 | 1:A:31:LYS:H   | 17       | 4.9           |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 18       | 4.9           |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 6        | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 9        | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 9        | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 16       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 16       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 17       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 17       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 18       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 18       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2 | 19       | 4.9           |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3 | 19       | 4.9           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 2        | 4.9           |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 2        | 4.9           |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD1 | 4        | 4.9           |
| (1,3992) | 1:A:20:CYS:HB3  | 1:A:25:TYR:HD2 | 4        | 4.9           |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 10       | 4.9           |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 10       | 4.9           |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 4        | 4.9           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 8        | 4.9           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 8        | 4.9           |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 5        | 4.9           |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 5        | 4.9           |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 6        | 4.9           |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 11       | 4.9           |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 8        | 4.9           |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 5        | 4.9           |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 10       | 4.9           |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 20       | 4.9           |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 20       | 4.9           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 6        | 4.9           |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H   | 5        | 4.9           |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H   | 10       | 4.9           |
| (1,3048) | 1:A:12:GLY:HA3  | 1:A:14:CYS:HB2 | 10       | 4.9           |
| (1,2937) | 1:A:11:TRP:HZ2  | 1:A:12:GLY:H   | 13       | 4.9           |
| (1,2937) | 1:A:11:TRP:HZ2  | 1:A:12:GLY:H   | 17       | 4.9           |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,2120) | 1:A:8:GLY:HA3 | 1:A:25:TYR:H    | 1        | 4.9           |
| (1,2059) | 1:A:8:GLY:H   | 1:A:26:CYS:HA   | 3        | 4.9           |
| (1,2059) | 1:A:8:GLY:H   | 1:A:26:CYS:HA   | 5        | 4.9           |
| (1,1998) | 1:A:7:CYS:HB2 | 1:A:22:GLN:HA   | 14       | 4.9           |
| (1,1998) | 1:A:7:CYS:HB3 | 1:A:22:GLN:HA   | 14       | 4.9           |
| (1,1992) | 1:A:7:CYS:HB2 | 1:A:18:LEU:HG   | 17       | 4.9           |
| (1,1992) | 1:A:7:CYS:HB3 | 1:A:18:LEU:HG   | 17       | 4.9           |
| (1,1985) | 1:A:7:CYS:HB2 | 1:A:15:ARG:HB2  | 2        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB3 | 1:A:15:ARG:HB2  | 2        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB2 | 1:A:15:ARG:HB3  | 2        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB3 | 1:A:15:ARG:HB3  | 2        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB2 | 1:A:15:ARG:HB2  | 4        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB3 | 1:A:15:ARG:HB2  | 4        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB2 | 1:A:15:ARG:HB3  | 4        | 4.9           |
| (1,1985) | 1:A:7:CYS:HB3 | 1:A:15:ARG:HB3  | 4        | 4.9           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 2        | 4.9           |
| (1,1559) | 1:A:6:GLN:HA  | 1:A:18:LEU:HB2  | 19       | 4.9           |
| (1,1559) | 1:A:6:GLN:HA  | 1:A:18:LEU:HB3  | 19       | 4.9           |
| (1,1496) | 1:A:5:GLY:HA3 | 1:A:32:TYR:HE1  | 17       | 4.9           |
| (1,1496) | 1:A:5:GLY:HA3 | 1:A:32:TYR:HE2  | 17       | 4.9           |
| (1,1460) | 1:A:5:GLY:HA2 | 1:A:27:GLY:HA3  | 2        | 4.9           |
| (1,1222) | 1:A:4:ASN:HB3 | 1:A:25:TYR:H    | 14       | 4.9           |
| (1,1131) | 1:A:4:ASN:HB2 | 1:A:11:TRP:HZ2  | 7        | 4.9           |
| (1,1131) | 1:A:4:ASN:HB2 | 1:A:11:TRP:HZ2  | 15       | 4.9           |
| (1,1063) | 1:A:4:ASN:H   | 1:A:11:TRP:HZ2  | 9        | 4.9           |
| (1,779)  | 1:A:3:PRO:HB2 | 1:A:11:TRP:HZ3  | 2        | 4.89          |
| (1,576)  | 1:A:1:SER:HB2 | 1:A:25:TYR:HE1  | 3        | 4.89          |
| (1,576)  | 1:A:1:SER:HB2 | 1:A:25:TYR:HE2  | 3        | 4.89          |
| (1,576)  | 1:A:1:SER:HB3 | 1:A:25:TYR:HE1  | 3        | 4.89          |
| (1,576)  | 1:A:1:SER:HB3 | 1:A:25:TYR:HE2  | 3        | 4.89          |
| (1,576)  | 1:A:1:SER:HB2 | 1:A:25:TYR:HE1  | 18       | 4.89          |
| (1,576)  | 1:A:1:SER:HB2 | 1:A:25:TYR:HE2  | 18       | 4.89          |
| (1,576)  | 1:A:1:SER:HB3 | 1:A:25:TYR:HE1  | 18       | 4.89          |
| (1,576)  | 1:A:1:SER:HB3 | 1:A:25:TYR:HE2  | 18       | 4.89          |
| (1,562)  | 1:A:1:SER:HB2 | 1:A:21:SER:H    | 17       | 4.89          |
| (1,562)  | 1:A:1:SER:HB3 | 1:A:21:SER:H    | 17       | 4.89          |
| (1,548)  | 1:A:1:SER:HB2 | 1:A:11:TRP:HE1  | 1        | 4.89          |
| (1,548)  | 1:A:1:SER:HB3 | 1:A:11:TRP:HE1  | 1        | 4.89          |
| (1,520)  | 1:A:1:SER:HA  | 1:A:18:LEU:HD11 | 14       | 4.89          |
| (1,520)  | 1:A:1:SER:HA  | 1:A:18:LEU:HD12 | 14       | 4.89          |
| (1,520)  | 1:A:1:SER:HA  | 1:A:18:LEU:HD13 | 14       | 4.89          |
| (1,520)  | 1:A:1:SER:HA  | 1:A:18:LEU:HD21 | 14       | 4.89          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 14       | 4.89          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 14       | 4.89          |
| (1,4933) | 1:A:32:TYR:HE1  | 1:A:35:HIS:H    | 7        | 4.89          |
| (1,4933) | 1:A:32:TYR:HE2  | 1:A:35:HIS:H    | 7        | 4.89          |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H    | 13       | 4.89          |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H    | 13       | 4.89          |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H    | 13       | 4.89          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H    | 19       | 4.89          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H    | 19       | 4.89          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H    | 19       | 4.89          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 3        | 4.89          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE1  | 17       | 4.89          |
| (1,4802) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HE2  | 17       | 4.89          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1  | 8        | 4.89          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2  | 8        | 4.89          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3  | 8        | 4.89          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2  | 17       | 4.89          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2  | 17       | 4.89          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3  | 17       | 4.89          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3  | 17       | 4.89          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 11       | 4.89          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 11       | 4.89          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 19       | 4.89          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 19       | 4.89          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 3        | 4.89          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 3        | 4.89          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 20       | 4.89          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1  | 4        | 4.89          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2  | 4        | 4.89          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 4        | 4.89          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB2  | 7        | 4.89          |
| (1,4040) | 1:A:21:SER:H    | 1:A:33:CYS:HB3  | 7        | 4.89          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 1        | 4.89          |
| (1,3917) | 1:A:20:CYS:H    | 1:A:23:TYR:H    | 6        | 4.89          |
| (1,3917) | 1:A:20:CYS:H    | 1:A:23:TYR:H    | 17       | 4.89          |
| (1,3915) | 1:A:20:CYS:H    | 1:A:22:GLN:HG3  | 1        | 4.89          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 6        | 4.89          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 6        | 4.89          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2  | 2        | 4.89          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2  | 5        | 4.89          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2  | 18       | 4.89          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2  | 19       | 4.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA  | 6        | 4.89          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H   | 6        | 4.89          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3 | 12       | 4.89          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB2 | 7        | 4.89          |
| (1,3428) | 1:A:15:ARG:HE  | 1:A:20:CYS:HB3 | 7        | 4.89          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3 | 18       | 4.89          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA  | 8        | 4.89          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA  | 8        | 4.89          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA  | 18       | 4.89          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA  | 18       | 4.89          |
| (1,3221) | 1:A:14:CYS:HB2 | 1:A:33:CYS:HA  | 5        | 4.89          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 1        | 4.89          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 6        | 4.89          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA  | 11       | 4.89          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA  | 5        | 4.89          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3 | 9        | 4.89          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2 | 18       | 4.89          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3 | 18       | 4.89          |
| (1,1460) | 1:A:5:GLY:HA2  | 1:A:27:GLY:HA3 | 10       | 4.89          |
| (1,1285) | 1:A:4:ASN:HD21 | 1:A:26:CYS:H   | 20       | 4.89          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3 | 15       | 4.89          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 10       | 4.88          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 10       | 4.88          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 10       | 4.88          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 10       | 4.88          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3 | 17       | 4.88          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 1        | 4.88          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 1        | 4.88          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 20       | 4.88          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 20       | 4.88          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 1        | 4.88          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 1        | 4.88          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 1        | 4.88          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 1        | 4.88          |
| (1,560)  | 1:A:1:SER:HB2  | 1:A:19:CYS:H   | 9        | 4.88          |
| (1,560)  | 1:A:1:SER:HB3  | 1:A:19:CYS:H   | 9        | 4.88          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H   | 5        | 4.88          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H   | 5        | 4.88          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H   | 5        | 4.88          |
| (1,4871) | 1:A:31:LYS:HG2 | 1:A:33:CYS:HA  | 20       | 4.88          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H   | 3        | 4.88          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 1        | 4.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 1        | 4.88          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 11       | 4.88          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 11       | 4.88          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2 | 4        | 4.88          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3 | 4        | 4.88          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 13       | 4.88          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 13       | 4.88          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 13       | 4.88          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 13       | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2 | 4        | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3 | 4        | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2 | 5        | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3 | 5        | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2 | 17       | 4.88          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3 | 17       | 4.88          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB2 | 7        | 4.88          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB2 | 7        | 4.88          |
| (1,4435) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HB3 | 7        | 4.88          |
| (1,4435) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HB3 | 7        | 4.88          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 11       | 4.88          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 11       | 4.88          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 11       | 4.88          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 11       | 4.88          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3 | 5        | 4.88          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3 | 13       | 4.88          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1 | 3        | 4.88          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2 | 3        | 4.88          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1 | 6        | 4.88          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2 | 6        | 4.88          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H   | 17       | 4.88          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE2 | 1        | 4.88          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE3 | 1        | 4.88          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 6        | 4.88          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 6        | 4.88          |
| (1,4014) | 1:A:21:SER:H   | 1:A:22:GLN:HG3 | 18       | 4.88          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H   | 7        | 4.88          |
| (1,3980) | 1:A:20:CYS:HB2 | 1:A:35:HIS:HD2 | 1        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H   | 2        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H   | 3        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H   | 4        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H   | 5        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H   | 7        | 4.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 8        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 9        | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 10       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 12       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 13       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 14       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 15       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 16       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 18       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 19       | 4.88          |
| (1,3917) | 1:A:20:CYS:H   | 1:A:23:TYR:H    | 20       | 4.88          |
| (1,3901) | 1:A:19:CYS:HB3 | 1:A:29:GLY:HA3  | 2        | 4.88          |
| (1,3723) | 1:A:18:LEU:HB3 | 1:A:33:CYS:H    | 17       | 4.88          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 10       | 4.88          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 16       | 4.88          |
| (1,3714) | 1:A:18:LEU:HB3 | 1:A:25:TYR:HB2  | 17       | 4.88          |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 2        | 4.88          |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 4        | 4.88          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 5        | 4.88          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 10       | 4.88          |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 20       | 4.88          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 2        | 4.88          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 4        | 4.88          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 18       | 4.88          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 19       | 4.88          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 6        | 4.88          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 6        | 4.88          |
| (1,2198) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HZ2  | 13       | 4.88          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 4        | 4.88          |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA   | 4        | 4.88          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 12       | 4.88          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 12       | 4.88          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 1        | 4.88          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 11       | 4.88          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 7        | 4.88          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 7        | 4.88          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 1        | 4.88          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 1        | 4.88          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 18       | 4.88          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 8        | 4.88          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 8        | 4.88          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 8        | 4.88          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 8        | 4.88          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 8        | 4.88          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 8        | 4.88          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2  | 8        | 4.88          |
| (1,901)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HZ2  | 2        | 4.87          |
| (1,901)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HZ2  | 2        | 4.87          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 12       | 4.87          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 12       | 4.87          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 16       | 4.87          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 16       | 4.87          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD11 | 1        | 4.87          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD12 | 1        | 4.87          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD13 | 1        | 4.87          |
| (1,561)  | 1:A:1:SER:HB2   | 1:A:20:CYS:H    | 19       | 4.87          |
| (1,561)  | 1:A:1:SER:HB3   | 1:A:20:CYS:H    | 19       | 4.87          |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3   | 8        | 4.87          |
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3   | 8        | 4.87          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 8        | 4.87          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 8        | 4.87          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H    | 17       | 4.87          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H    | 17       | 4.87          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H    | 17       | 4.87          |
| (1,4858) | 1:A:31:LYS:HA   | 1:A:35:HIS:HE1  | 12       | 4.87          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 10       | 4.87          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2  | 3        | 4.87          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3  | 3        | 4.87          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2  | 15       | 4.87          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2  | 15       | 4.87          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3  | 15       | 4.87          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3  | 15       | 4.87          |
| (1,4573) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HA   | 2        | 4.87          |
| (1,4573) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HA   | 2        | 4.87          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 12       | 4.87          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 19       | 4.87          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 19       | 4.87          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 4        | 4.87          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 4        | 4.87          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3  | 8        | 4.87          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3  | 20       | 4.87          |
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 14       | 4.87          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 10       | 4.87          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 10       | 4.87          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 12       | 4.87          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 14       | 4.87          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 14       | 4.87          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 14       | 4.87          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 2        | 4.87          |
| (1,3917) | 1:A:20:CYS:H    | 1:A:23:TYR:H   | 1        | 4.87          |
| (1,3917) | 1:A:20:CYS:H    | 1:A:23:TYR:H   | 11       | 4.87          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 6        | 4.87          |
| (1,3810) | 1:A:18:LEU:HD21 | 1:A:31:LYS:H   | 14       | 4.87          |
| (1,3810) | 1:A:18:LEU:HD22 | 1:A:31:LYS:H   | 14       | 4.87          |
| (1,3810) | 1:A:18:LEU:HD23 | 1:A:31:LYS:H   | 14       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 19       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 19       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 19       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 20       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 20       | 4.87          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 20       | 4.87          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2 | 20       | 4.87          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 3        | 4.87          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 15       | 4.87          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 7        | 4.87          |
| (1,3509) | 1:A:16:GLY:HA2  | 1:A:26:CYS:HB3 | 14       | 4.87          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 14       | 4.87          |
| (1,3378) | 1:A:15:ARG:HG3  | 1:A:27:GLY:HA2 | 14       | 4.87          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 4        | 4.87          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 4        | 4.87          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 4        | 4.87          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 4        | 4.87          |
| (1,3326) | 1:A:15:ARG:HB3  | 1:A:20:CYS:H   | 16       | 4.87          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 3        | 4.87          |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H   | 16       | 4.87          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 9        | 4.87          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 16       | 4.87          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 10       | 4.87          |
| (1,2059) | 1:A:8:GLY:H     | 1:A:26:CYS:HA  | 13       | 4.87          |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 8        | 4.87          |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 8        | 4.87          |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE  | 12       | 4.87          |
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE  | 12       | 4.87          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 3        | 4.87          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 3        | 4.87          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 3        | 4.87          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3  | 3        | 4.87          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 6        | 4.87          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 14       | 4.87          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 15       | 4.87          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB2   | 17       | 4.87          |
| (1,1920) | 1:A:7:CYS:H    | 1:A:9:PRO:HB3   | 17       | 4.87          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 5        | 4.87          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 6        | 4.87          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 2        | 4.87          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 14       | 4.87          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 8        | 4.86          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 8        | 4.86          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 8        | 4.86          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2  | 2        | 4.86          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3  | 2        | 4.86          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG   | 15       | 4.86          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 15       | 4.86          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 5        | 4.86          |
| (1,4893) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HE1  | 19       | 4.86          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 18       | 4.86          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 18       | 4.86          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 11       | 4.86          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2  | 12       | 4.86          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2  | 12       | 4.86          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2  | 12       | 4.86          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 7        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 5        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2  | 5        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3  | 5        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3  | 5        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 7        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2  | 7        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3  | 7        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3  | 7        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 9        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2  | 9        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3  | 9        | 4.86          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3  | 9        | 4.86          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 1        | 4.86          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 1        | 4.86          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 1        | 4.86          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 1        | 4.86          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4298) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HA   | 1        | 4.86          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 8        | 4.86          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 1        | 4.86          |
| (1,4206) | 1:A:22:GLN:HG2  | 1:A:34:ALA:H    | 17       | 4.86          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 1        | 4.86          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 3        | 4.86          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 3        | 4.86          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 3        | 4.86          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 3        | 4.86          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 3        | 4.86          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 19       | 4.86          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 19       | 4.86          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB2  | 20       | 4.86          |
| (1,3850) | 1:A:19:CYS:H    | 1:A:35:HIS:HB3  | 20       | 4.86          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 18       | 4.86          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 18       | 4.86          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 18       | 4.86          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H    | 17       | 4.86          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2  | 13       | 4.86          |
| (1,3643) | 1:A:17:GLY:HA3  | 1:A:35:HIS:HE1  | 12       | 4.86          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3  | 17       | 4.86          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2  | 2        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2  | 2        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3  | 2        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3  | 2        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2  | 3        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2  | 3        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3  | 3        | 4.86          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3  | 3        | 4.86          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 2        | 4.86          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 4        | 4.86          |
| (1,3210) | 1:A:14:CYS:HB2  | 1:A:28:SER:H    | 7        | 4.86          |
| (1,3162) | 1:A:13:GLY:HA3  | 1:A:26:CYS:H    | 17       | 4.86          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H    | 6        | 4.86          |
| (1,1927) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ2  | 3        | 4.86          |
| (1,1927) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ2  | 4        | 4.86          |
| (1,1927) | 1:A:7:CYS:H     | 1:A:11:TRP:HZ2  | 5        | 4.86          |
| (1,1768) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HA   | 14       | 4.86          |
| (1,1588) | 1:A:6:GLN:HB2   | 1:A:10:GLY:HA3  | 10       | 4.86          |
| (1,1559) | 1:A:6:GLN:HA    | 1:A:18:LEU:HB2  | 8        | 4.86          |
| (1,1559) | 1:A:6:GLN:HA    | 1:A:18:LEU:HB3  | 8        | 4.86          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 3        | 4.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 4        | 4.86          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 16       | 4.86          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 16       | 4.86          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 1        | 4.86          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 15       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 19       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 19       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 19       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 19       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 19       | 4.86          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 19       | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 4        | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 4        | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 4        | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 4        | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 4        | 4.86          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 4        | 4.86          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 2        | 4.85          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 2        | 4.85          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 2        | 4.85          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 2        | 4.85          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 4        | 4.85          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 4        | 4.85          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 11       | 4.85          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 11       | 4.85          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE   | 14       | 4.85          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE   | 14       | 4.85          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 11       | 4.85          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 14       | 4.85          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 14       | 4.85          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3  | 6        | 4.85          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1  | 18       | 4.85          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2  | 18       | 4.85          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3  | 18       | 4.85          |
| (1,4652) | 1:A:26:CYS:HB2 | 1:A:28:SER:HB3  | 14       | 4.85          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 1        | 4.85          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 3        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 2        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2  | 2        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3  | 2        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3  | 2        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2  | 4        | 4.85          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 4        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 4        | 4.85          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 4        | 4.85          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 2        | 4.85          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 2        | 4.85          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 6        | 4.85          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 6        | 4.85          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 7        | 4.85          |
| (1,4359) | 1:A:23:TYR:H    | 1:A:35:HIS:HE1 | 19       | 4.85          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 3        | 4.85          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 3        | 4.85          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 18       | 4.85          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 18       | 4.85          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 7        | 4.85          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 2        | 4.85          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 5        | 4.85          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 10       | 4.85          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H   | 9        | 4.85          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 5        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 7        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 7        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 7        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 8        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 8        | 4.85          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 8        | 4.85          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 4        | 4.85          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 4        | 4.85          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 1        | 4.85          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 11       | 4.85          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 17       | 4.85          |
| (1,3661) | 1:A:18:LEU:H    | 1:A:33:CYS:HB2 | 6        | 4.85          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 15       | 4.85          |
| (1,3617) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HB3 | 12       | 4.85          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 13       | 4.85          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 7        | 4.85          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 18       | 4.85          |
| (1,3551) | 1:A:17:GLY:H    | 1:A:19:CYS:HB3 | 19       | 4.85          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H   | 16       | 4.85          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H   | 16       | 4.85          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 12       | 4.85          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 12       | 4.85          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 16       | 4.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H    | 16       | 4.85          |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA   | 6        | 4.85          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 5        | 4.85          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 5        | 4.85          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 11       | 4.85          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 11       | 4.85          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 2        | 4.85          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 3        | 4.85          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 10       | 4.85          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 2        | 4.85          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 13       | 4.85          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 20       | 4.85          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 20       | 4.85          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 7        | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 18       | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 18       | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 18       | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 18       | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 18       | 4.85          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 18       | 4.85          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 5        | 4.85          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 16       | 4.85          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 12       | 4.84          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 20       | 4.84          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 20       | 4.84          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 20       | 4.84          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 20       | 4.84          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 6        | 4.84          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 6        | 4.84          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 12       | 4.84          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 12       | 4.84          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2  | 12       | 4.84          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3  | 12       | 4.84          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H    | 2        | 4.84          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1  | 1        | 4.84          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 3        | 4.84          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 12       | 4.84          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 12       | 4.84          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3  | 10       | 4.84          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 6        | 4.84          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 9        | 4.84          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 11       | 4.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H   | 12       | 4.84          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H   | 15       | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 3        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 3        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 3        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 3        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 6        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 6        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 6        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 6        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 8        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 8        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 8        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 8        | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2 | 14       | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2 | 14       | 4.84          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3 | 14       | 4.84          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3 | 14       | 4.84          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 12       | 4.84          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 12       | 4.84          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 14       | 4.84          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 14       | 4.84          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 10       | 4.84          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 10       | 4.84          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 10       | 4.84          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 10       | 4.84          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2 | 2        | 4.84          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2 | 2        | 4.84          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 15       | 4.84          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 14       | 4.84          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 5        | 4.84          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 11       | 4.84          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 8        | 4.84          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 9        | 4.84          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 6        | 4.84          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 6        | 4.84          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 13       | 4.84          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 6        | 4.84          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 6        | 4.84          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 6        | 4.84          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 13       | 4.84          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 3        | 4.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 13       | 4.84          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 14       | 4.84          |
| (1,3545) | 1:A:16:GLY:HA3 | 1:A:33:CYS:HB3  | 5        | 4.84          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE   | 9        | 4.84          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE   | 11       | 4.84          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 20       | 4.84          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE1  | 17       | 4.84          |
| (1,2660) | 1:A:11:TRP:HB2 | 1:A:25:TYR:HE2  | 17       | 4.84          |
| (1,2488) | 1:A:10:GLY:HA2 | 1:A:11:TRP:HH2  | 13       | 4.84          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE1  | 17       | 4.84          |
| (1,2443) | 1:A:9:PRO:HD2  | 1:A:25:TYR:HE2  | 17       | 4.84          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE1  | 17       | 4.84          |
| (1,2443) | 1:A:9:PRO:HD3  | 1:A:25:TYR:HE2  | 17       | 4.84          |
| (1,2120) | 1:A:8:GLY:HA3  | 1:A:25:TYR:H    | 14       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 18       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 18       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 19       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 19       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 20       | 4.84          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 20       | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 2        | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 2        | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 2        | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 5        | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 5        | 4.84          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 5        | 4.84          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 2        | 4.84          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 13       | 4.84          |
| (1,1284) | 1:A:4:ASN:HD21 | 1:A:25:TYR:HB3  | 1        | 4.84          |
| (1,1211) | 1:A:4:ASN:HB3  | 1:A:21:SER:HG   | 19       | 4.84          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 20       | 4.84          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 6        | 4.84          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 12       | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 3        | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 3        | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 3        | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 3        | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 3        | 4.84          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 3        | 4.84          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 7        | 4.83          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 20       | 4.83          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 6        | 4.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 2        | 4.83          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 5        | 4.83          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 18       | 4.83          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 18       | 4.83          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 18       | 4.83          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 15       | 4.83          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 15       | 4.83          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 5        | 4.83          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 5        | 4.83          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 16       | 4.83          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 16       | 4.83          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 17       | 4.83          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 17       | 4.83          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG   | 10       | 4.83          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 10       | 4.83          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 10       | 4.83          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 10       | 4.83          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 10       | 4.83          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 10       | 4.83          |
| (1,551)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HH2  | 9        | 4.83          |
| (1,551)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HH2  | 9        | 4.83          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 6        | 4.83          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 6        | 4.83          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 6        | 4.83          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 10       | 4.83          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 18       | 4.83          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 17       | 4.83          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA   | 19       | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 2        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 2        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 4        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 4        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 8        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 8        | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1  | 13       | 4.83          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2  | 13       | 4.83          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3  | 15       | 4.83          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2  | 17       | 4.83          |
| (1,4681) | 1:A:27:GLY:H   | 1:A:31:LYS:HG2  | 20       | 4.83          |
| (1,4681) | 1:A:27:GLY:H   | 1:A:31:LYS:HG3  | 20       | 4.83          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 8        | 4.83          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 13       | 4.83          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 1        | 4.83          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 8        | 4.83          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 8        | 4.83          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 10       | 4.83          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 2        | 4.83          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 2        | 4.83          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 12       | 4.83          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 12       | 4.83          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA   | 18       | 4.83          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1  | 5        | 4.83          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2  | 5        | 4.83          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 18       | 4.83          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 19       | 4.83          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 20       | 4.83          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 10       | 4.83          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 15       | 4.83          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 14       | 4.83          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 14       | 4.83          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 14       | 4.83          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA   | 9        | 4.83          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H    | 12       | 4.83          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3  | 6        | 4.83          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H    | 19       | 4.83          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 6        | 4.83          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 6        | 4.83          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 10       | 4.83          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 10       | 4.83          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 3        | 4.83          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3  | 5        | 4.83          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3  | 20       | 4.83          |
| (1,3048) | 1:A:12:GLY:HA3  | 1:A:14:CYS:HB2  | 17       | 4.83          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD1  | 13       | 4.83          |
| (1,2867) | 1:A:11:TRP:HE1  | 1:A:25:TYR:HD2  | 13       | 4.83          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H    | 5        | 4.83          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 6        | 4.83          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 6        | 4.83          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 6        | 4.83          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H    | 12       | 4.83          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2  | 13       | 4.83          |
| (1,956)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HE1  | 16       | 4.82          |
| (1,901)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HZ2  | 6        | 4.82          |
| (1,901)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HZ2  | 6        | 4.82          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3  | 4        | 4.82          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 15       | 4.82          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 15       | 4.82          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2  | 17       | 4.82          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H   | 20       | 4.82          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H   | 20       | 4.82          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H   | 20       | 4.82          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1 | 7        | 4.82          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1 | 7        | 4.82          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 17       | 4.82          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H   | 11       | 4.82          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H   | 11       | 4.82          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE1 | 15       | 4.82          |
| (1,4802) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HE2 | 15       | 4.82          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 1        | 4.82          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2 | 5        | 4.82          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3 | 5        | 4.82          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2 | 9        | 4.82          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3 | 9        | 4.82          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H   | 10       | 4.82          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H   | 14       | 4.82          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H   | 17       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 10       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 10       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 10       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 10       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 16       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 16       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 16       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 16       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 18       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 18       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 18       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 18       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 19       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 19       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 19       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 19       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA2 | 20       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA2 | 20       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE1 | 1:A:27:GLY:HA3 | 20       | 4.82          |
| (1,4581) | 1:A:25:TYR:HE2 | 1:A:27:GLY:HA3 | 20       | 4.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H   | 2        | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 16       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 16       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 18       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 18       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 19       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 19       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 20       | 4.82          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 20       | 4.82          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 13       | 4.82          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 13       | 4.82          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 5        | 4.82          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 5        | 4.82          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 5        | 4.82          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 5        | 4.82          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 6        | 4.82          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 6        | 4.82          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 9        | 4.82          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 9        | 4.82          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 18       | 4.82          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 18       | 4.82          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 4        | 4.82          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 9        | 4.82          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 12       | 4.82          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 15       | 4.82          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 9        | 4.82          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 8        | 4.82          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 16       | 4.82          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H   | 19       | 4.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ1 | 6        | 4.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ2 | 6        | 4.82          |
| (1,3879) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HZ3 | 6        | 4.82          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 11       | 4.82          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 11       | 4.82          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 2        | 4.82          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 2        | 4.82          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 2        | 4.82          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 1        | 4.82          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 3        | 4.82          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA  | 20       | 4.82          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 2        | 4.82          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 6        | 4.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 7        | 4.82          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 9        | 4.82          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB2  | 9        | 4.82          |
| (1,1559) | 1:A:6:GLN:HA   | 1:A:18:LEU:HB3  | 9        | 4.82          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 2        | 4.82          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 5        | 4.82          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 6        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 7        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 7        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 7        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 7        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 7        | 4.82          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 7        | 4.82          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 8        | 4.81          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 19       | 4.81          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 18       | 4.81          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 18       | 4.81          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 18       | 4.81          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 18       | 4.81          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 1        | 4.81          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 1        | 4.81          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 10       | 4.81          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 10       | 4.81          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 17       | 4.81          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 17       | 4.81          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 10       | 4.81          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 13       | 4.81          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD1  | 14       | 4.81          |
| (1,695)  | 1:A:2:GLY:HA2  | 1:A:25:TYR:HD2  | 14       | 4.81          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1  | 20       | 4.81          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2  | 20       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 11       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 11       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 11       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 19       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 19       | 4.81          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 19       | 4.81          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 11       | 4.81          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 11       | 4.81          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 5        | 4.81          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 5        | 4.81          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3  | 1        | 4.81          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 4        | 4.81          |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 12       | 4.81          |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 20       | 4.81          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H    | 19       | 4.81          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H    | 19       | 4.81          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2  | 8        | 4.81          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2  | 18       | 4.81          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H    | 5        | 4.81          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA2  | 12       | 4.81          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA2  | 12       | 4.81          |
| (1,4581) | 1:A:25:TYR:HE1  | 1:A:27:GLY:HA3  | 12       | 4.81          |
| (1,4581) | 1:A:25:TYR:HE2  | 1:A:27:GLY:HA3  | 12       | 4.81          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 11       | 4.81          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2  | 3        | 4.81          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3  | 3        | 4.81          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2  | 3        | 4.81          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3  | 3        | 4.81          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 7        | 4.81          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 7        | 4.81          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H    | 1        | 4.81          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 13       | 4.81          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H    | 7        | 4.81          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1  | 17       | 4.81          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 18       | 4.81          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 6        | 4.81          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 19       | 4.81          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 20       | 4.81          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 19       | 4.81          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 19       | 4.81          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 5        | 4.81          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 5        | 4.81          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 5        | 4.81          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 19       | 4.81          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 8        | 4.81          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 8        | 4.81          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 11       | 4.81          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 13       | 4.81          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 13       | 4.81          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 9        | 4.81          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 9        | 4.81          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 9        | 4.81          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA   | 18       | 4.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 19       | 4.81          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 4        | 4.81          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 17       | 4.81          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 11       | 4.81          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE   | 10       | 4.81          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 19       | 4.81          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H    | 17       | 4.81          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 7        | 4.81          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 7        | 4.81          |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 9        | 4.81          |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 9        | 4.81          |
| (1,1703) | 1:A:6:GLN:HG2  | 1:A:12:GLY:H    | 17       | 4.81          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 11       | 4.81          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 12       | 4.81          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 20       | 4.81          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 3        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 1        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 1        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 1        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 1        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 1        | 4.81          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 1        | 4.81          |
| (1,956)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HE1  | 18       | 4.8           |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 16       | 4.8           |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 16       | 4.8           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 16       | 4.8           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 16       | 4.8           |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 14       | 4.8           |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 14       | 4.8           |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 10       | 4.8           |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1  | 17       | 4.8           |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2  | 17       | 4.8           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 20       | 4.8           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 20       | 4.8           |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 20       | 4.8           |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 14       | 4.8           |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 18       | 4.8           |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 5        | 4.8           |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 9        | 4.8           |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 17       | 4.8           |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2  | 7        | 4.8           |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 12       | 4.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 12       | 4.8           |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 6        | 4.8           |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 6        | 4.8           |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2  | 18       | 4.8           |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3  | 12       | 4.8           |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2  | 7        | 4.8           |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3  | 7        | 4.8           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 15       | 4.8           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 15       | 4.8           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 15       | 4.8           |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3  | 16       | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 1        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 1        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 7        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 7        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 8        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 8        | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 11       | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 11       | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 15       | 4.8           |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 15       | 4.8           |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 11       | 4.8           |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 11       | 4.8           |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 11       | 4.8           |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3  | 9        | 4.8           |
| (1,4066) | 1:A:21:SER:HG  | 1:A:22:GLN:HG2  | 19       | 4.8           |
| (1,4044) | 1:A:21:SER:H   | 1:A:35:HIS:H    | 9        | 4.8           |
| (1,3949) | 1:A:20:CYS:H   | 1:A:35:HIS:HE1  | 5        | 4.8           |
| (1,3940) | 1:A:20:CYS:H   | 1:A:32:TYR:H    | 3        | 4.8           |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2  | 5        | 4.8           |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG3  | 5        | 4.8           |
| (1,3707) | 1:A:18:LEU:HB3 | 1:A:21:SER:HG   | 4        | 4.8           |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 8        | 4.8           |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 12       | 4.8           |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 1        | 4.8           |
| (1,3551) | 1:A:17:GLY:H   | 1:A:19:CYS:HB3  | 16       | 4.8           |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA   | 5        | 4.8           |
| (1,3309) | 1:A:15:ARG:HB2 | 1:A:28:SER:HB3  | 10       | 4.8           |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE   | 8        | 4.8           |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 18       | 4.8           |
| (1,1998) | 1:A:7:CYS:HB2  | 1:A:22:GLN:HA   | 16       | 4.8           |
| (1,1998) | 1:A:7:CYS:HB3  | 1:A:22:GLN:HA   | 16       | 4.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 17       | 4.8           |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 7        | 4.8           |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 8        | 4.8           |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 16       | 4.8           |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 7        | 4.8           |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 9        | 4.8           |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 15       | 4.8           |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 10       | 4.8           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 14       | 4.8           |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 14       | 4.8           |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 17       | 4.8           |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 19       | 4.79          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 19       | 4.79          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 19       | 4.79          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 19       | 4.79          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 5        | 4.79          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 16       | 4.79          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 16       | 4.79          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 16       | 4.79          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 2        | 4.79          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 2        | 4.79          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 12       | 4.79          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 12       | 4.79          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG   | 9        | 4.79          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 9        | 4.79          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 10       | 4.79          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H    | 14       | 4.79          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1  | 19       | 4.79          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 9        | 4.79          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 9        | 4.79          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2  | 13       | 4.79          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3  | 13       | 4.79          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG2  | 1        | 4.79          |
| (1,4742) | 1:A:28:SER:HB2 | 1:A:31:LYS:HG3  | 1        | 4.79          |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3  | 20       | 4.79          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2  | 10       | 4.79          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3  | 10       | 4.79          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 3        | 4.79          |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD1  | 10       | 4.79          |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD2  | 10       | 4.79          |
| (1,4206) | 1:A:22:GLN:HG2 | 1:A:34:ALA:H    | 14       | 4.79          |
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE1  | 16       | 4.79          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4140) | 1:A:22:GLN:HA  | 1:A:25:TYR:HE2  | 16       | 4.79          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 20       | 4.79          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 20       | 4.79          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 3        | 4.79          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 18       | 4.79          |
| (1,4005) | 1:A:20:CYS:HB3 | 1:A:33:CYS:H    | 20       | 4.79          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1  | 14       | 4.79          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2  | 14       | 4.79          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3  | 14       | 4.79          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 5        | 4.79          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 5        | 4.79          |
| (1,3940) | 1:A:20:CYS:H   | 1:A:32:TYR:H    | 6        | 4.79          |
| (1,3908) | 1:A:19:CYS:HB3 | 1:A:35:HIS:HE1  | 13       | 4.79          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD1  | 5        | 4.79          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2  | 5        | 4.79          |
| (1,3707) | 1:A:18:LEU:HB3 | 1:A:21:SER:HG   | 11       | 4.79          |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 7        | 4.79          |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 16       | 4.79          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 1        | 4.79          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 11       | 4.79          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 15       | 4.79          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB2  | 10       | 4.79          |
| (1,3582) | 1:A:17:GLY:H   | 1:A:33:CYS:HB3  | 10       | 4.79          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H    | 18       | 4.79          |
| (1,3210) | 1:A:14:CYS:HB2 | 1:A:28:SER:H    | 17       | 4.79          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 1        | 4.79          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 1        | 4.79          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 17       | 4.79          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 17       | 4.79          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 12       | 4.79          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 12       | 4.79          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 16       | 4.79          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 16       | 4.79          |
| (1,1919) | 1:A:7:CYS:H    | 1:A:9:PRO:HA    | 17       | 4.79          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 17       | 4.79          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 18       | 4.79          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 1        | 4.79          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 16       | 4.79          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 18       | 4.79          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 19       | 4.79          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 6        | 4.79          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 4        | 4.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA3 | 4        | 4.79          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2 | 9        | 4.79          |
| (1,762)  | 1:A:3:PRO:HA    | 1:A:26:CYS:HB2 | 1        | 4.78          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1 | 4        | 4.78          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2 | 4        | 4.78          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1 | 19       | 4.78          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2 | 19       | 4.78          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 5        | 4.78          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 5        | 4.78          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 5        | 4.78          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 5        | 4.78          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1 | 20       | 4.78          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1 | 20       | 4.78          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 1        | 4.78          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 1        | 4.78          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H   | 9        | 4.78          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H   | 9        | 4.78          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 1        | 4.78          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 1        | 4.78          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 5        | 4.78          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 10       | 4.78          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H   | 10       | 4.78          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2 | 9        | 4.78          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3 | 9        | 4.78          |
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3 | 20       | 4.78          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3 | 20       | 4.78          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3 | 16       | 4.78          |
| (1,4332) | 1:A:22:GLN:HE22 | 1:A:34:ALA:H   | 15       | 4.78          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 16       | 4.78          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 6        | 4.78          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 6        | 4.78          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 17       | 4.78          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 13       | 4.78          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 17       | 4.78          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 16       | 4.78          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 16       | 4.78          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 18       | 4.78          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 19       | 4.78          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 19       | 4.78          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 10       | 4.78          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 10       | 4.78          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 10       | 4.78          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 5        | 4.78          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 6        | 4.78          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H    | 16       | 4.78          |
| (1,4005) | 1:A:20:CYS:HB3  | 1:A:33:CYS:H    | 19       | 4.78          |
| (1,3979) | 1:A:20:CYS:HB2  | 1:A:35:HIS:H    | 20       | 4.78          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1  | 12       | 4.78          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2  | 12       | 4.78          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3  | 12       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 12       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 12       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 14       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 14       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 17       | 4.78          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 17       | 4.78          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 18       | 4.78          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 18       | 4.78          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 5        | 4.78          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 5        | 4.78          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 5        | 4.78          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 12       | 4.78          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 12       | 4.78          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 12       | 4.78          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 13       | 4.78          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H    | 8        | 4.78          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H    | 20       | 4.78          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 14       | 4.78          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA   | 17       | 4.78          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2  | 11       | 4.78          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3  | 11       | 4.78          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 4        | 4.78          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 4        | 4.78          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 4        | 4.78          |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 15       | 4.78          |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 19       | 4.78          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H    | 8        | 4.78          |
| (1,1574) | 1:A:6:GLN:HA    | 1:A:27:GLY:H    | 20       | 4.78          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 5        | 4.78          |
| (1,1512) | 1:A:6:GLN:H     | 1:A:12:GLY:H    | 3        | 4.78          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H    | 17       | 4.78          |
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA2  | 2        | 4.78          |
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA3  | 2        | 4.78          |
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA2  | 5        | 4.78          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA3 | 5        | 4.78          |
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA2 | 6        | 4.78          |
| (1,1435) | 1:A:5:GLY:H     | 1:A:24:GLY:HA3 | 6        | 4.78          |
| (1,1132) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HH2 | 10       | 4.78          |
| (1,1131) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ2 | 11       | 4.78          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB2  | 17       | 4.78          |
| (1,1054) | 1:A:4:ASN:H     | 1:A:7:CYS:HB3  | 17       | 4.78          |
| (1,901)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HZ2 | 5        | 4.77          |
| (1,901)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HZ2 | 5        | 4.77          |
| (1,901)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HZ2 | 13       | 4.77          |
| (1,901)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HZ2 | 13       | 4.77          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 2        | 4.77          |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3  | 14       | 4.77          |
| (1,685)  | 1:A:2:GLY:HA2   | 1:A:11:TRP:HE1 | 17       | 4.77          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG  | 12       | 4.77          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG  | 12       | 4.77          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2  | 5        | 4.77          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2  | 8        | 4.77          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2  | 12       | 4.77          |
| (1,4897) | 1:A:31:LYS:HD2  | 1:A:33:CYS:HA  | 8        | 4.77          |
| (1,4897) | 1:A:31:LYS:HD3  | 1:A:33:CYS:HA  | 8        | 4.77          |
| (1,4896) | 1:A:31:LYS:HB3  | 1:A:33:CYS:HA  | 10       | 4.77          |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 5        | 4.77          |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 9        | 4.77          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 5        | 4.77          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H   | 5        | 4.77          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H   | 5        | 4.77          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 4        | 4.77          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 13       | 4.77          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 4        | 4.77          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 4        | 4.77          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 3        | 4.77          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 6        | 4.77          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 7        | 4.77          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 9        | 4.77          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2 | 20       | 4.77          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3 | 20       | 4.77          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 14       | 4.77          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 14       | 4.77          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 17       | 4.77          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 17       | 4.77          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 17       | 4.77          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1  | 15       | 4.77          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2  | 15       | 4.77          |
| (1,4193) | 1:A:22:GLN:HB2 | 1:A:32:TYR:H    | 12       | 4.77          |
| (1,4193) | 1:A:22:GLN:HB2 | 1:A:32:TYR:H    | 18       | 4.77          |
| (1,4044) | 1:A:21:SER:H   | 1:A:35:HIS:H    | 11       | 4.77          |
| (1,3979) | 1:A:20:CYS:HB2 | 1:A:35:HIS:H    | 17       | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 7        | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 7        | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 8        | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 8        | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 9        | 4.77          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 9        | 4.77          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD1  | 2        | 4.77          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2  | 2        | 4.77          |
| (1,3699) | 1:A:18:LEU:HB2 | 1:A:33:CYS:HA   | 12       | 4.77          |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA   | 17       | 4.77          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 7        | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 10       | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 10       | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 10       | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 14       | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 14       | 4.77          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 14       | 4.77          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 10       | 4.77          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 4        | 4.77          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 3        | 4.77          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 3        | 4.77          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA2  | 10       | 4.77          |
| (1,1435) | 1:A:5:GLY:H    | 1:A:24:GLY:HA3  | 10       | 4.77          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 2        | 4.77          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 11       | 4.76          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 6        | 4.76          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 6        | 4.76          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 6        | 4.76          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 6        | 4.76          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 12       | 4.76          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 12       | 4.76          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 12       | 4.76          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 12       | 4.76          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 16       | 4.76          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1  | 6        | 4.76          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H    | 10       | 4.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 9        | 4.76          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 19       | 4.76          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 5        | 4.76          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 5        | 4.76          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 11       | 4.76          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 11       | 4.76          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 11       | 4.76          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H   | 2        | 4.76          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H   | 4        | 4.76          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H   | 5        | 4.76          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 15       | 4.76          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 7        | 4.76          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 7        | 4.76          |
| (1,4427) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HA  | 2        | 4.76          |
| (1,4427) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HA  | 2        | 4.76          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 11       | 4.76          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 11       | 4.76          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 17       | 4.76          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 3        | 4.76          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 15       | 4.76          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 13       | 4.76          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 19       | 4.76          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 19       | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 1        | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 1        | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 11       | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 11       | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1 | 15       | 4.76          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2 | 15       | 4.76          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 7        | 4.76          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 18       | 4.76          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 5        | 4.76          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 5        | 4.76          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 6        | 4.76          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 16       | 4.76          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 18       | 4.76          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 17       | 4.76          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 1        | 4.76          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 8        | 4.76          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 12       | 4.76          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 9        | 4.76          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 2        | 4.76          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H    | 2        | 4.76          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H    | 5        | 4.76          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H    | 5        | 4.76          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H    | 10       | 4.76          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H    | 10       | 4.76          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 12       | 4.76          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 12       | 4.76          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 12       | 4.76          |
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB2  | 19       | 4.76          |
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB3  | 19       | 4.76          |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 1        | 4.76          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 2        | 4.76          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 6        | 4.76          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 10       | 4.76          |
| (1,1284) | 1:A:4:ASN:HD21  | 1:A:25:TYR:HB3  | 20       | 4.76          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 3        | 4.75          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 3        | 4.75          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 11       | 4.75          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 11       | 4.75          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD11 | 7        | 4.75          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD12 | 7        | 4.75          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD13 | 7        | 4.75          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 7        | 4.75          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 19       | 4.75          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2  | 2        | 4.75          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2  | 2        | 4.75          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3  | 2        | 4.75          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 16       | 4.75          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 1        | 4.75          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 2        | 4.75          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 13       | 4.75          |
| (1,4698) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HB3  | 19       | 4.75          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB2  | 1        | 4.75          |
| (1,4692) | 1:A:27:GLY:H    | 1:A:35:HIS:HB3  | 1        | 4.75          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 14       | 4.75          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 9        | 4.75          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 18       | 4.75          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 18       | 4.75          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 6        | 4.75          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 6        | 4.75          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 15       | 4.75          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2  | 13       | 4.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 13       | 4.75          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 8        | 4.75          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 2        | 4.75          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 4        | 4.75          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 7        | 4.75          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 12       | 4.75          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 14       | 4.75          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 4        | 4.75          |
| (1,3980) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HD2 | 6        | 4.75          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 4        | 4.75          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 4        | 4.75          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 4        | 4.75          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3 | 9        | 4.75          |
| (1,3885) | 1:A:19:CYS:HB2  | 1:A:35:HIS:HD2 | 6        | 4.75          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 4        | 4.75          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 4        | 4.75          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 1        | 4.75          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 1        | 4.75          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 1        | 4.75          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 15       | 4.75          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 15       | 4.75          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 15       | 4.75          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 2        | 4.75          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 6        | 4.75          |
| (1,3677) | 1:A:18:LEU:HB2  | 1:A:21:SER:HB3 | 14       | 4.75          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 12       | 4.75          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 12       | 4.75          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 19       | 4.75          |
| (1,3545) | 1:A:16:GLY:HA3  | 1:A:33:CYS:HB3 | 10       | 4.75          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 10       | 4.75          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 10       | 4.75          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA2 | 14       | 4.75          |
| (1,3240) | 1:A:14:CYS:HB3  | 1:A:24:GLY:HA3 | 14       | 4.75          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 19       | 4.75          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 15       | 4.75          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 20       | 4.75          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 3        | 4.75          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 3        | 4.75          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 4        | 4.75          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 4        | 4.75          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 6        | 4.75          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 6        | 4.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 3        | 4.75          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 3        | 4.75          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 3        | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 7        | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 7        | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 13       | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 13       | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 18       | 4.75          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 18       | 4.75          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 4        | 4.75          |
| (1,1574) | 1:A:6:GLN:HA   | 1:A:27:GLY:H    | 11       | 4.75          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 14       | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 6        | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 6        | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 6        | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 6        | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 6        | 4.75          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 6        | 4.75          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 15       | 4.74          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 15       | 4.74          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 3        | 4.74          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 2        | 4.74          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 13       | 4.74          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 13       | 4.74          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 18       | 4.74          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 18       | 4.74          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 19       | 4.74          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 19       | 4.74          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 14       | 4.74          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 14       | 4.74          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3   | 15       | 4.74          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3   | 15       | 4.74          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 8        | 4.74          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 8        | 4.74          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2  | 4        | 4.74          |
| (1,4698) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HB3  | 18       | 4.74          |
| (1,4644) | 1:A:26:CYS:HA  | 1:A:33:CYS:H    | 16       | 4.74          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H    | 17       | 4.74          |
| (1,4533) | 1:A:25:TYR:HB2 | 1:A:28:SER:H    | 8        | 4.74          |
| (1,4533) | 1:A:25:TYR:HB2 | 1:A:28:SER:H    | 17       | 4.74          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 17       | 4.74          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 17       | 4.74          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3  | 17       | 4.74          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3  | 17       | 4.74          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 14       | 4.74          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 14       | 4.74          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2  | 14       | 4.74          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3  | 14       | 4.74          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2  | 14       | 4.74          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3  | 14       | 4.74          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 3        | 4.74          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 3        | 4.74          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H    | 13       | 4.74          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H    | 13       | 4.74          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG2  | 4        | 4.74          |
| (1,4377) | 1:A:23:TYR:HB2  | 1:A:31:LYS:HG3  | 4        | 4.74          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 16       | 4.74          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1  | 3        | 4.74          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2  | 3        | 4.74          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 4        | 4.74          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1  | 14       | 4.74          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2  | 14       | 4.74          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2  | 7        | 4.74          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3  | 7        | 4.74          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 12       | 4.74          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 12       | 4.74          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 7        | 4.74          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 7        | 4.74          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H    | 17       | 4.74          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA   | 9        | 4.74          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 10       | 4.74          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 10       | 4.74          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE1  | 13       | 4.74          |
| (1,3942) | 1:A:20:CYS:H    | 1:A:32:TYR:HE2  | 13       | 4.74          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 5        | 4.74          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 11       | 4.74          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 11       | 4.74          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 11       | 4.74          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 16       | 4.74          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 16       | 4.74          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 10       | 4.74          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 11       | 4.74          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 11       | 4.74          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3  | 13       | 4.74          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H    | 9        | 4.74          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 9        | 4.74          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 11       | 4.74          |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 4        | 4.74          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 2        | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD11 | 15       | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD12 | 15       | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD13 | 15       | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 15       | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 15       | 4.74          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 15       | 4.74          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 6        | 4.73          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 6        | 4.73          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD11 | 9        | 4.73          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD12 | 9        | 4.73          |
| (1,628)  | 1:A:2:GLY:H     | 1:A:18:LEU:HD13 | 9        | 4.73          |
| (1,561)  | 1:A:1:SER:HB2   | 1:A:20:CYS:H    | 10       | 4.73          |
| (1,561)  | 1:A:1:SER:HB3   | 1:A:20:CYS:H    | 10       | 4.73          |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H    | 15       | 4.73          |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H    | 15       | 4.73          |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H    | 15       | 4.73          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H    | 2        | 4.73          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H    | 2        | 4.73          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1  | 8        | 4.73          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2  | 8        | 4.73          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 8        | 4.73          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 18       | 4.73          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 19       | 4.73          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 20       | 4.73          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1  | 3        | 4.73          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2  | 3        | 4.73          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3  | 3        | 4.73          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 15       | 4.73          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H    | 18       | 4.73          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H    | 19       | 4.73          |
| (1,4644) | 1:A:26:CYS:HA   | 1:A:33:CYS:H    | 20       | 4.73          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H    | 13       | 4.73          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA   | 13       | 4.73          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA   | 13       | 4.73          |
| (1,4378) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HB3  | 6        | 4.73          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA   | 6        | 4.73          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 5        | 4.73          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 12       | 4.73          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 1        | 4.73          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 1        | 4.73          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 2        | 4.73          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 7        | 4.73          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H   | 9        | 4.73          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 2        | 4.73          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 2        | 4.73          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE1 | 10       | 4.73          |
| (1,4140) | 1:A:22:GLN:HA   | 1:A:25:TYR:HE2 | 10       | 4.73          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 3        | 4.73          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 3        | 4.73          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 14       | 4.73          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 14       | 4.73          |
| (1,4026) | 1:A:21:SER:H    | 1:A:28:SER:HA  | 8        | 4.73          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 5        | 4.73          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 5        | 4.73          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 16       | 4.73          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 3        | 4.73          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 10       | 4.73          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 14       | 4.73          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 7        | 4.73          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 7        | 4.73          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 1        | 4.73          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 1        | 4.73          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 1        | 4.73          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 13       | 4.73          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 13       | 4.73          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 13       | 4.73          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 10       | 4.73          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 10       | 4.73          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 20       | 4.73          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 20       | 4.73          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 1        | 4.73          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 9        | 4.73          |
| (1,3380) | 1:A:15:ARG:HG2  | 1:A:28:SER:HB3 | 11       | 4.73          |
| (1,3380) | 1:A:15:ARG:HG3  | 1:A:28:SER:HB3 | 11       | 4.73          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 8        | 4.73          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 18       | 4.73          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 19       | 4.73          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD1 | 17       | 4.73          |
| (1,2442) | 1:A:9:PRO:HD2   | 1:A:25:TYR:HD2 | 17       | 4.73          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD1  | 17       | 4.73          |
| (1,2442) | 1:A:9:PRO:HD3   | 1:A:25:TYR:HD2  | 17       | 4.73          |
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB2  | 8        | 4.73          |
| (1,1937) | 1:A:7:CYS:H     | 1:A:18:LEU:HB3  | 8        | 4.73          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 15       | 4.73          |
| (1,1222) | 1:A:4:ASN:HB3   | 1:A:25:TYR:H    | 1        | 4.73          |
| (1,779)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ3  | 13       | 4.72          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 18       | 4.72          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 18       | 4.72          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG   | 17       | 4.72          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG   | 17       | 4.72          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 11       | 4.72          |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H    | 1        | 4.72          |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H    | 1        | 4.72          |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H    | 1        | 4.72          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA   | 15       | 4.72          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA   | 15       | 4.72          |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA   | 17       | 4.72          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2  | 18       | 4.72          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3  | 18       | 4.72          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H    | 20       | 4.72          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H    | 20       | 4.72          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3  | 3        | 4.72          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 9        | 4.72          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 16       | 4.72          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 10       | 4.72          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 10       | 4.72          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 4        | 4.72          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 4        | 4.72          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 12       | 4.72          |
| (1,4293) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HB3  | 17       | 4.72          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 5        | 4.72          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1  | 17       | 4.72          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2  | 17       | 4.72          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1  | 15       | 4.72          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2  | 15       | 4.72          |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 8        | 4.72          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 19       | 4.72          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 19       | 4.72          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2  | 20       | 4.72          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3  | 20       | 4.72          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 18       | 4.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 18       | 4.72          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3  | 7        | 4.72          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 1        | 4.72          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 11       | 4.72          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 15       | 4.72          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 17       | 4.72          |
| (1,4018) | 1:A:21:SER:H   | 1:A:23:TYR:HE1  | 7        | 4.72          |
| (1,4018) | 1:A:21:SER:H   | 1:A:23:TYR:HE2  | 7        | 4.72          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 19       | 4.72          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 19       | 4.72          |
| (1,3945) | 1:A:20:CYS:H   | 1:A:34:ALA:H    | 6        | 4.72          |
| (1,3940) | 1:A:20:CYS:H   | 1:A:32:TYR:H    | 12       | 4.72          |
| (1,3901) | 1:A:19:CYS:HB3 | 1:A:29:GLY:HA3  | 20       | 4.72          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD1  | 15       | 4.72          |
| (1,3753) | 1:A:18:LEU:HG  | 1:A:32:TYR:HD2  | 15       | 4.72          |
| (1,3741) | 1:A:18:LEU:HG  | 1:A:26:CYS:H    | 2        | 4.72          |
| (1,3607) | 1:A:17:GLY:HA2 | 1:A:27:GLY:H    | 16       | 4.72          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2  | 3        | 4.72          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3  | 3        | 4.72          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2  | 4        | 4.72          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3  | 4        | 4.72          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE   | 3        | 4.72          |
| (1,3211) | 1:A:14:CYS:HB2 | 1:A:28:SER:HB3  | 17       | 4.72          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 2        | 4.72          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 2        | 4.72          |
| (1,3097) | 1:A:13:GLY:H   | 1:A:20:CYS:H    | 20       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 7        | 4.72          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 7        | 4.72          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 9        | 4.72          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 9        | 4.72          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 18       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 18       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 19       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 19       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 20       | 4.72          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 20       | 4.72          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 15       | 4.72          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 15       | 4.72          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 20       | 4.72          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 20       | 4.72          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 1        | 4.72          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 9        | 4.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 11       | 4.72          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 12       | 4.72          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 3        | 4.72          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 4        | 4.72          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 13       | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 2        | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 2        | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 2        | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 2        | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 2        | 4.72          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 2        | 4.72          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 12       | 4.71          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 15       | 4.71          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 10       | 4.71          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 7        | 4.71          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 7        | 4.71          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 7        | 4.71          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 7        | 4.71          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 20       | 4.71          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 20       | 4.71          |
| (1,4934) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HB3  | 1        | 4.71          |
| (1,4934) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HB3  | 1        | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 18       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 19       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 20       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 20       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 20       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 20       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 20       | 4.71          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 20       | 4.71          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 18       | 4.71          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 18       | 4.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 19       | 4.71          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 19       | 4.71          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 20       | 4.71          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 20       | 4.71          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 12       | 4.71          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 3        | 4.71          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 10       | 4.71          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 10       | 4.71          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2  | 13       | 4.71          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2  | 13       | 4.71          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1  | 16       | 4.71          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2  | 16       | 4.71          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3  | 16       | 4.71          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2  | 20       | 4.71          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2  | 19       | 4.71          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3  | 19       | 4.71          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H    | 1        | 4.71          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H    | 11       | 4.71          |
| (1,4533) | 1:A:25:TYR:HB2 | 1:A:28:SER:H    | 13       | 4.71          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2  | 7        | 4.71          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3  | 7        | 4.71          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2  | 7        | 4.71          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3  | 7        | 4.71          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 17       | 4.71          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 18       | 4.71          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2  | 8        | 4.71          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3  | 8        | 4.71          |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 18       | 4.71          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE1  | 1        | 4.71          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE2  | 1        | 4.71          |
| (1,4129) | 1:A:22:GLN:H   | 1:A:34:ALA:H    | 2        | 4.71          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 9        | 4.71          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 9        | 4.71          |
| (1,4026) | 1:A:21:SER:H   | 1:A:28:SER:HA   | 13       | 4.71          |
| (1,4012) | 1:A:21:SER:H   | 1:A:22:GLN:HG2  | 6        | 4.71          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 2        | 4.71          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 2        | 4.71          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE1  | 4        | 4.71          |
| (1,3942) | 1:A:20:CYS:H   | 1:A:32:TYR:HE2  | 4        | 4.71          |
| (1,3901) | 1:A:19:CYS:HB3 | 1:A:29:GLY:HA3  | 18       | 4.71          |
| (1,3901) | 1:A:19:CYS:HB3 | 1:A:29:GLY:HA3  | 19       | 4.71          |
| (1,3878) | 1:A:19:CYS:HB2 | 1:A:31:LYS:HG2  | 2        | 4.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 2        | 4.71          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 3        | 4.71          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 3        | 4.71          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 3        | 4.71          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 10       | 4.71          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 10       | 4.71          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 10       | 4.71          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 18       | 4.71          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 18       | 4.71          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1 | 19       | 4.71          |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2 | 19       | 4.71          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 3        | 4.71          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 12       | 4.71          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 13       | 4.71          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 8        | 4.71          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 2        | 4.71          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 2        | 4.71          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 17       | 4.71          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 17       | 4.71          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 20       | 4.71          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 20       | 4.71          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 7        | 4.71          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 18       | 4.71          |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H   | 19       | 4.71          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 1        | 4.71          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 12       | 4.71          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H   | 16       | 4.71          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 8        | 4.71          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 8        | 4.71          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 16       | 4.71          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 16       | 4.71          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD1 | 17       | 4.71          |
| (1,2002) | 1:A:7:CYS:HB2   | 1:A:23:TYR:HD2 | 17       | 4.71          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD1 | 17       | 4.71          |
| (1,2002) | 1:A:7:CYS:HB3   | 1:A:23:TYR:HD2 | 17       | 4.71          |
| (1,1791) | 1:A:6:GLN:HE21  | 1:A:7:CYS:HB2  | 17       | 4.71          |
| (1,1791) | 1:A:6:GLN:HE21  | 1:A:7:CYS:HB3  | 17       | 4.71          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H    | 12       | 4.71          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H    | 13       | 4.71          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2  | 11       | 4.71          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3  | 11       | 4.71          |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H    | 1        | 4.71          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H     | 15       | 4.71          |
| (1,1588) | 1:A:6:GLN:HB2   | 1:A:10:GLY:HA3  | 14       | 4.71          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 5        | 4.71          |
| (1,1480) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HG   | 13       | 4.71          |
| (1,1480) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HG   | 14       | 4.71          |
| (1,1222) | 1:A:4:ASN:HB3   | 1:A:25:TYR:H    | 15       | 4.71          |
| (1,1159) | 1:A:4:ASN:HB2   | 1:A:25:TYR:H    | 3        | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD11 | 10       | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD12 | 10       | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD13 | 10       | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD21 | 10       | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD22 | 10       | 4.71          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD23 | 10       | 4.71          |
| (1,956)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HE1  | 9        | 4.7           |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA    | 11       | 4.7           |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA    | 11       | 4.7           |
| (1,750)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HB3   | 6        | 4.7           |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1  | 13       | 4.7           |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2  | 13       | 4.7           |
| (1,577)  | 1:A:1:SER:HB2   | 1:A:27:GLY:H    | 7        | 4.7           |
| (1,577)  | 1:A:1:SER:HB3   | 1:A:27:GLY:H    | 7        | 4.7           |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1  | 13       | 4.7           |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1  | 13       | 4.7           |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 3        | 4.7           |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 13       | 4.7           |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA   | 16       | 4.7           |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA   | 16       | 4.7           |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA   | 16       | 4.7           |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H    | 19       | 4.7           |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2  | 18       | 4.7           |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3  | 18       | 4.7           |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2  | 7        | 4.7           |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3  | 7        | 4.7           |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 18       | 4.7           |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2  | 19       | 4.7           |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H    | 16       | 4.7           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 8        | 4.7           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 8        | 4.7           |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 4        | 4.7           |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 4        | 4.7           |
| (1,4193) | 1:A:22:GLN:HB2  | 1:A:32:TYR:H    | 11       | 4.7           |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H    | 4        | 4.7           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2  | 15       | 4.7           |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3  | 15       | 4.7           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2  | 8        | 4.7           |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3  | 8        | 4.7           |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 14       | 4.7           |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 14       | 4.7           |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3  | 9        | 4.7           |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3  | 2        | 4.7           |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3  | 19       | 4.7           |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 11       | 4.7           |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 16       | 4.7           |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 4        | 4.7           |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 4        | 4.7           |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 4        | 4.7           |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 8        | 4.7           |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 8        | 4.7           |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 8        | 4.7           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 17       | 4.7           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 17       | 4.7           |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 4        | 4.7           |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 11       | 4.7           |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 5        | 4.7           |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H    | 20       | 4.7           |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 10       | 4.7           |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3  | 10       | 4.7           |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3  | 20       | 4.7           |
| (1,3097) | 1:A:13:GLY:H    | 1:A:20:CYS:H    | 16       | 4.7           |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2  | 15       | 4.7           |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3  | 15       | 4.7           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 13       | 4.7           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 13       | 4.7           |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H    | 7        | 4.7           |
| (1,1768) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HA   | 13       | 4.7           |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 16       | 4.7           |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2   | 1        | 4.7           |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3   | 1        | 4.7           |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H     | 12       | 4.7           |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 2        | 4.7           |
| (1,1629) | 1:A:6:GLN:HB3   | 1:A:12:GLY:HA3  | 10       | 4.7           |
| (1,1567) | 1:A:6:GLN:HA    | 1:A:23:TYR:H    | 1        | 4.7           |
| (1,1567) | 1:A:6:GLN:HA    | 1:A:23:TYR:H    | 11       | 4.7           |
| (1,1222) | 1:A:4:ASN:HB3   | 1:A:25:TYR:H    | 20       | 4.7           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 11       | 4.69          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 11       | 4.69          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA   | 15       | 4.69          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA   | 15       | 4.69          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3 | 17       | 4.69          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 5        | 4.69          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 5        | 4.69          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 5        | 4.69          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 5        | 4.69          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 1        | 4.69          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 1        | 4.69          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H   | 10       | 4.69          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H   | 10       | 4.69          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 5        | 4.69          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 5        | 4.69          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H   | 16       | 4.69          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H   | 16       | 4.69          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 8        | 4.69          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 8        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 5        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 5        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 6        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 6        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 9        | 4.69          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 9        | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 4        | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 4        | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 4        | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 14       | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 14       | 4.69          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 14       | 4.69          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 6        | 4.69          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 7        | 4.69          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 5        | 4.69          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2 | 9        | 4.69          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3 | 9        | 4.69          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2 | 18       | 4.69          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3 | 18       | 4.69          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2 | 8        | 4.69          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 18       | 4.69          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 19       | 4.69          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 20       | 4.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2  | 1        | 4.69          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2  | 1        | 4.69          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3  | 1        | 4.69          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB3  | 1        | 4.69          |
| (1,4378) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HB3  | 19       | 4.69          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG2  | 19       | 4.69          |
| (1,4377) | 1:A:23:TYR:HB2 | 1:A:31:LYS:HG3  | 19       | 4.69          |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3  | 17       | 4.69          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA   | 2        | 4.69          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE21 | 2        | 4.69          |
| (1,4069) | 1:A:21:SER:HG  | 1:A:22:GLN:HE22 | 2        | 4.69          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB1  | 2        | 4.69          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB2  | 2        | 4.69          |
| (1,3978) | 1:A:20:CYS:HB2 | 1:A:34:ALA:HB3  | 2        | 4.69          |
| (1,3945) | 1:A:20:CYS:H   | 1:A:34:ALA:H    | 5        | 4.69          |
| (1,3940) | 1:A:20:CYS:H   | 1:A:32:TYR:H    | 10       | 4.69          |
| (1,3901) | 1:A:19:CYS:HB3 | 1:A:29:GLY:HA3  | 1        | 4.69          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB2  | 1        | 4.69          |
| (1,3850) | 1:A:19:CYS:H   | 1:A:35:HIS:HB3  | 1        | 4.69          |
| (1,3707) | 1:A:18:LEU:HB3 | 1:A:21:SER:HG   | 16       | 4.69          |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2  | 9        | 4.69          |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2  | 12       | 4.69          |
| (1,3247) | 1:A:14:CYS:HB3 | 1:A:28:SER:HB3  | 17       | 4.69          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 11       | 4.69          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 4        | 4.69          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 4        | 4.69          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 12       | 4.69          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 12       | 4.69          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 9        | 4.69          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 9        | 4.69          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 11       | 4.69          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 11       | 4.69          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 7        | 4.69          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 8        | 4.69          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 20       | 4.69          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 4        | 4.69          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 4        | 4.69          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 15       | 4.69          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 15       | 4.69          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 8        | 4.69          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 16       | 4.69          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 20       | 4.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 3        | 4.69          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 5        | 4.69          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 8        | 4.69          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 3        | 4.69          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 9        | 4.69          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H     | 14       | 4.69          |
| (1,1159) | 1:A:4:ASN:HB2  | 1:A:25:TYR:H    | 4        | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 14       | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 14       | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 14       | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 14       | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 14       | 4.69          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 14       | 4.69          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 11       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 11       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 11       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 11       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 13       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 13       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 13       | 4.68          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 13       | 4.68          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 1        | 4.68          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 1        | 4.68          |
| (1,750)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HB3   | 5        | 4.68          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 14       | 4.68          |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 9        | 4.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 1        | 4.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 1        | 4.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 3        | 4.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 3        | 4.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 11       | 4.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 11       | 4.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 17       | 4.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 17       | 4.68          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 2        | 4.68          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 2        | 4.68          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 2        | 4.68          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 3        | 4.68          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 3        | 4.68          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 3        | 4.68          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1  | 18       | 4.68          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2  | 18       | 4.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 19       | 4.68          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 19       | 4.68          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 20       | 4.68          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 20       | 4.68          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 17       | 4.68          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 5        | 4.68          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 6        | 4.68          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 12       | 4.68          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 12       | 4.68          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 12       | 4.68          |
| (1,4297) | 1:A:22:GLN:HE21 | 1:A:34:ALA:H   | 1        | 4.68          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 9        | 4.68          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 18       | 4.68          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3 | 3        | 4.68          |
| (1,4044) | 1:A:21:SER:H    | 1:A:35:HIS:H   | 20       | 4.68          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 11       | 4.68          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 7        | 4.68          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 7        | 4.68          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 9        | 4.68          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 9        | 4.68          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 10       | 4.68          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 6        | 4.68          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 6        | 4.68          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 6        | 4.68          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 16       | 4.68          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 16       | 4.68          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 16       | 4.68          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 6        | 4.68          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 15       | 4.68          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H   | 18       | 4.68          |
| (1,3607) | 1:A:17:GLY:HA2  | 1:A:27:GLY:H   | 7        | 4.68          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA  | 10       | 4.68          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA  | 10       | 4.68          |
| (1,3211) | 1:A:14:CYS:HB2  | 1:A:28:SER:HB3 | 10       | 4.68          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 1        | 4.68          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 1        | 4.68          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 15       | 4.68          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 15       | 4.68          |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H   | 2        | 4.68          |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H   | 3        | 4.68          |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H   | 4        | 4.68          |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H   | 5        | 4.68          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H    | 6        | 4.68          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H    | 10       | 4.68          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H    | 11       | 4.68          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H    | 15       | 4.68          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 14       | 4.68          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 14       | 4.68          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H    | 15       | 4.68          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H    | 15       | 4.68          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 17       | 4.68          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 17       | 4.68          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 17       | 4.68          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB2  | 1        | 4.68          |
| (1,1937) | 1:A:7:CYS:H    | 1:A:18:LEU:HB3  | 1        | 4.68          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 4        | 4.68          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 18       | 4.68          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA2  | 17       | 4.68          |
| (1,1699) | 1:A:6:GLN:HG2  | 1:A:10:GLY:HA3  | 17       | 4.68          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 7        | 4.68          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 13       | 4.68          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 6        | 4.68          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 13       | 4.68          |
| (1,1131) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ2  | 17       | 4.68          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 13       | 4.67          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 13       | 4.67          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 10       | 4.67          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 10       | 4.67          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 10       | 4.67          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 10       | 4.67          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H    | 6        | 4.67          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H    | 6        | 4.67          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 6        | 4.67          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1  | 10       | 4.67          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2  | 10       | 4.67          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1  | 16       | 4.67          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2  | 16       | 4.67          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2  | 11       | 4.67          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB2  | 20       | 4.67          |
| (1,4692) | 1:A:27:GLY:H   | 1:A:35:HIS:HB3  | 20       | 4.67          |
| (1,4533) | 1:A:25:TYR:HB2 | 1:A:28:SER:H    | 19       | 4.67          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3  | 20       | 4.67          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3  | 20       | 4.67          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3  | 4        | 4.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 4        | 4.67          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA   | 20       | 4.67          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 6        | 4.67          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 6        | 4.67          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2  | 1        | 4.67          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 18       | 4.67          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 18       | 4.67          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 10       | 4.67          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 10       | 4.67          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1  | 13       | 4.67          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2  | 13       | 4.67          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3  | 13       | 4.67          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 4        | 4.67          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 8        | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 7        | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 9        | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 16       | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 18       | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 19       | 4.67          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 20       | 4.67          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 4        | 4.67          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 13       | 4.67          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 3        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 3        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 3        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 4        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 4        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 4        | 4.67          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 13       | 4.67          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 13       | 4.67          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 13       | 4.67          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 10       | 4.67          |
| (1,3714) | 1:A:18:LEU:HB3  | 1:A:25:TYR:HB2  | 14       | 4.67          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 7        | 4.67          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 12       | 4.67          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 18       | 4.67          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG   | 19       | 4.67          |
| (1,3699) | 1:A:18:LEU:HB2  | 1:A:33:CYS:HA   | 14       | 4.67          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H    | 19       | 4.67          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H    | 12       | 4.67          |
| (1,3271) | 1:A:15:ARG:H    | 1:A:26:CYS:HA   | 5        | 4.67          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG   | 14       | 4.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 3        | 4.67          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 3        | 4.67          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 11       | 4.67          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 11       | 4.67          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H    | 13       | 4.67          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H    | 14       | 4.67          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 14       | 4.67          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 14       | 4.67          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 16       | 4.67          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 16       | 4.67          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 16       | 4.67          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 12       | 4.67          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 19       | 4.67          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 4        | 4.67          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 18       | 4.67          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 19       | 4.67          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 9        | 4.67          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 20       | 4.67          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 2        | 4.67          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 5        | 4.67          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 10       | 4.67          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 17       | 4.67          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 9        | 4.66          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 9        | 4.66          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 12       | 4.66          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 12       | 4.66          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 14       | 4.66          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 9        | 4.66          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H    | 12       | 4.66          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H    | 12       | 4.66          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 19       | 4.66          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 19       | 4.66          |
| (1,573)  | 1:A:1:SER:HB2  | 1:A:25:TYR:H    | 9        | 4.66          |
| (1,573)  | 1:A:1:SER:HB3  | 1:A:25:TYR:H    | 9        | 4.66          |
| (1,513)  | 1:A:1:SER:HA   | 1:A:14:CYS:HB2  | 17       | 4.66          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3  | 16       | 4.66          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3  | 16       | 4.66          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 2        | 4.66          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 13       | 4.66          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 13       | 4.66          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1  | 2        | 4.66          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2  | 2        | 4.66          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 2        | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1  | 13       | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2  | 13       | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 13       | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1  | 15       | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2  | 15       | 4.66          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 15       | 4.66          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2  | 20       | 4.66          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3  | 20       | 4.66          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 18       | 4.66          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H    | 20       | 4.66          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE2  | 18       | 4.66          |
| (1,4519) | 1:A:25:TYR:H    | 1:A:31:LYS:HE3  | 18       | 4.66          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 3        | 4.66          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 3        | 4.66          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 16       | 4.66          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3  | 7        | 4.66          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1  | 13       | 4.66          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2  | 13       | 4.66          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3  | 10       | 4.66          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H    | 10       | 4.66          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3  | 18       | 4.66          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 5        | 4.66          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 2        | 4.66          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 13       | 4.66          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 15       | 4.66          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 17       | 4.66          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 8        | 4.66          |
| (1,3901) | 1:A:19:CYS:HB3  | 1:A:29:GLY:HA3  | 17       | 4.66          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 2        | 4.66          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 3        | 4.66          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 5        | 4.66          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 6        | 4.66          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 14       | 4.66          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 17       | 4.66          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 2        | 4.66          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 2        | 4.66          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 2        | 4.66          |
| (1,3632) | 1:A:17:GLY:HA3  | 1:A:27:GLY:H    | 16       | 4.66          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 10       | 4.66          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 11       | 4.66          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 11       | 4.66          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3 | 18       | 4.66          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3 | 18       | 4.66          |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H   | 14       | 4.66          |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H   | 14       | 4.66          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 17       | 4.66          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 17       | 4.66          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA  | 6        | 4.66          |
| (1,3247) | 1:A:14:CYS:HB3 | 1:A:28:SER:HB3 | 14       | 4.66          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2 | 12       | 4.66          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3 | 12       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 1        | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 7        | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 8        | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 9        | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 11       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 12       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 15       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 16       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 18       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 19       | 4.66          |
| (1,2723) | 1:A:11:TRP:HD1 | 1:A:13:GLY:H   | 20       | 4.66          |
| (1,2701) | 1:A:11:TRP:HB3 | 1:A:26:CYS:H   | 17       | 4.66          |
| (1,2428) | 1:A:9:PRO:HD2  | 1:A:13:GLY:H   | 11       | 4.66          |
| (1,2428) | 1:A:9:PRO:HD3  | 1:A:13:GLY:H   | 11       | 4.66          |
| (1,2084) | 1:A:8:GLY:HA2  | 1:A:21:SER:H   | 17       | 4.66          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H    | 14       | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2  | 2        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3  | 2        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2  | 3        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3  | 3        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2  | 9        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3  | 9        | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2  | 13       | 4.66          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3  | 13       | 4.66          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H   | 13       | 4.66          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3 | 14       | 4.66          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 6        | 4.66          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 1        | 4.66          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA   | 4        | 4.66          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 12       | 4.65          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 12       | 4.65          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 2        | 4.65          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2  | 2        | 4.65          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG   | 16       | 4.65          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG   | 16       | 4.65          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 13       | 4.65          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 14       | 4.65          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 7        | 4.65          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 7        | 4.65          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 13       | 4.65          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 13       | 4.65          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1  | 4        | 4.65          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2  | 4        | 4.65          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3  | 4        | 4.65          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1  | 12       | 4.65          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2  | 12       | 4.65          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3  | 12       | 4.65          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2  | 7        | 4.65          |
| (1,4715) | 1:A:27:GLY:HA3 | 1:A:33:CYS:HB2  | 12       | 4.65          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H    | 15       | 4.65          |
| (1,4533) | 1:A:25:TYR:HB2 | 1:A:28:SER:H    | 16       | 4.65          |
| (1,4192) | 1:A:22:GLN:HG2 | 1:A:32:TYR:H    | 16       | 4.65          |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H    | 3        | 4.65          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3  | 8        | 4.65          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 6        | 4.65          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 6        | 4.65          |
| (1,3973) | 1:A:20:CYS:HB2 | 1:A:32:TYR:HA   | 3        | 4.65          |
| (1,3912) | 1:A:20:CYS:H   | 1:A:22:GLN:HA   | 14       | 4.65          |
| (1,3877) | 1:A:19:CYS:HB2 | 1:A:26:CYS:H    | 11       | 4.65          |
| (1,3877) | 1:A:19:CYS:HB2 | 1:A:26:CYS:H    | 12       | 4.65          |
| (1,3877) | 1:A:19:CYS:HB2 | 1:A:26:CYS:H    | 15       | 4.65          |
| (1,3741) | 1:A:18:LEU:HG  | 1:A:26:CYS:H    | 5        | 4.65          |
| (1,3741) | 1:A:18:LEU:HG  | 1:A:26:CYS:H    | 16       | 4.65          |
| (1,3707) | 1:A:18:LEU:HB3 | 1:A:21:SER:HG   | 20       | 4.65          |
| (1,3661) | 1:A:18:LEU:H   | 1:A:33:CYS:HB2  | 15       | 4.65          |
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 9        | 4.65          |
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H    | 15       | 4.65          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 15       | 4.65          |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3  | 8        | 4.65          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3  | 8        | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 7        | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 7        | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 8        | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 8        | 4.65          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 16       | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 16       | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 18       | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 18       | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 20       | 4.65          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 20       | 4.65          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 3        | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 10       | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 10       | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 12       | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 12       | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 14       | 4.65          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 14       | 4.65          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 14       | 4.65          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3  | 14       | 4.65          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 15       | 4.65          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 18       | 4.65          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 14       | 4.65          |
| (1,1316) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HA    | 15       | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 5        | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 5        | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 5        | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 5        | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 5        | 4.65          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 5        | 4.65          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 4        | 4.65          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 11       | 4.64          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 11       | 4.64          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 8        | 4.64          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 8        | 4.64          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 17       | 4.64          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 17       | 4.64          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2  | 14       | 4.64          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3  | 14       | 4.64          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 18       | 4.64          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 18       | 4.64          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H    | 18       | 4.64          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H    | 16       | 4.64          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H    | 16       | 4.64          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA   | 10       | 4.64          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA   | 10       | 4.64          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA   | 12       | 4.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1 | 9        | 4.64          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2 | 9        | 4.64          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3 | 9        | 4.64          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 14       | 4.64          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 14       | 4.64          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 14       | 4.64          |
| (1,4715) | 1:A:27:GLY:HA3  | 1:A:33:CYS:HB2 | 14       | 4.64          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H   | 7        | 4.64          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H   | 9        | 4.64          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 6        | 4.64          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 6        | 4.64          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 1        | 4.64          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 17       | 4.64          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 16       | 4.64          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 16       | 4.64          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 16       | 4.64          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 16       | 4.64          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 15       | 4.64          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 6        | 4.64          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 6        | 4.64          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 6        | 4.64          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 4        | 4.64          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 4        | 4.64          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 6        | 4.64          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 6        | 4.64          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 5        | 4.64          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 15       | 4.64          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 15       | 4.64          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 15       | 4.64          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 9        | 4.64          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 12       | 4.64          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 15       | 4.64          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 12       | 4.64          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 16       | 4.64          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 16       | 4.64          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 1        | 4.64          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 16       | 4.64          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 11       | 4.64          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 9        | 4.64          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 9        | 4.64          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 9        | 4.64          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 17       | 4.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 17       | 4.64          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 17       | 4.64          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 1        | 4.64          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 8        | 4.64          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 8        | 4.64          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 13       | 4.64          |
| (1,2723) | 1:A:11:TRP:HD1  | 1:A:13:GLY:H   | 17       | 4.64          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 1        | 4.64          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 1        | 4.64          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2 | 9        | 4.64          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3 | 9        | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 9        | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 9        | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 11       | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 11       | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 12       | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 12       | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 19       | 4.64          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 19       | 4.64          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H    | 2        | 4.64          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2  | 6        | 4.64          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3  | 6        | 4.64          |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H    | 3        | 4.64          |
| (1,1567) | 1:A:6:GLN:HA    | 1:A:23:TYR:H   | 19       | 4.64          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 18       | 4.64          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 19       | 4.64          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 20       | 4.64          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD1 | 3        | 4.64          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD2 | 3        | 4.64          |
| (1,1316) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HA   | 20       | 4.64          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 17       | 4.64          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 17       | 4.64          |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA   | 16       | 4.63          |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA   | 16       | 4.63          |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA   | 20       | 4.63          |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA   | 20       | 4.63          |
| (1,841)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HE3 | 4        | 4.63          |
| (1,762)  | 1:A:3:PRO:HA    | 1:A:26:CYS:HB2 | 8        | 4.63          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 5        | 4.63          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 5        | 4.63          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 5        | 4.63          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 5        | 4.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1 | 15       | 4.63          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1 | 15       | 4.63          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2  | 20       | 4.63          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA  | 4        | 4.63          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA  | 4        | 4.63          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA  | 4        | 4.63          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 13       | 4.63          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 13       | 4.63          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 13       | 4.63          |
| (1,4905) | 1:A:31:LYS:HE2  | 1:A:34:ALA:HA  | 12       | 4.63          |
| (1,4905) | 1:A:31:LYS:HE3  | 1:A:34:ALA:HA  | 12       | 4.63          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB2 | 2        | 4.63          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3 | 2        | 4.63          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 5        | 4.63          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 5        | 4.63          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 5        | 4.63          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 9        | 4.63          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 12       | 4.63          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 12       | 4.63          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 12       | 4.63          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA  | 2        | 4.63          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA  | 4        | 4.63          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA  | 5        | 4.63          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2 | 16       | 4.63          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3 | 16       | 4.63          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 2        | 4.63          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 2        | 4.63          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 10       | 4.63          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 10       | 4.63          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 2        | 4.63          |
| (1,4533) | 1:A:25:TYR:HB2  | 1:A:28:SER:H   | 10       | 4.63          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 11       | 4.63          |
| (1,4319) | 1:A:22:GLN:HE22 | 1:A:31:LYS:H   | 15       | 4.63          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 8        | 4.63          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 19       | 4.63          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 19       | 4.63          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 1        | 4.63          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 3        | 4.63          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 3        | 4.63          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 11       | 4.63          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 11       | 4.63          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 6        | 4.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 16       | 4.63          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 16       | 4.63          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 11       | 4.63          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 8        | 4.63          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 17       | 4.63          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 18       | 4.63          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 19       | 4.63          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 1        | 4.63          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 12       | 4.63          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 12       | 4.63          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 12       | 4.63          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 19       | 4.63          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 19       | 4.63          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 19       | 4.63          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 9        | 4.63          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 17       | 4.63          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 14       | 4.63          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 11       | 4.63          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 5        | 4.63          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 5        | 4.63          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 5        | 4.63          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 5        | 4.63          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 4        | 4.63          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 4        | 4.63          |
| (1,2428) | 1:A:9:PRO:HD2   | 1:A:13:GLY:H   | 13       | 4.63          |
| (1,2428) | 1:A:9:PRO:HD3   | 1:A:13:GLY:H   | 13       | 4.63          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 1        | 4.63          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 1        | 4.63          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2  | 15       | 4.63          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3  | 15       | 4.63          |
| (1,1768) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HA  | 15       | 4.63          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H    | 10       | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2  | 5        | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3  | 5        | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2  | 16       | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3  | 16       | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2  | 17       | 4.63          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3  | 17       | 4.63          |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H    | 2        | 4.63          |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H    | 10       | 4.63          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 7        | 4.63          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 8        | 4.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 12       | 4.63          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3 | 15       | 4.63          |
| (1,1511) | 1:A:6:GLN:H     | 1:A:11:TRP:HH2 | 3        | 4.63          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB2 | 14       | 4.63          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB3 | 14       | 4.63          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 10       | 4.63          |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA   | 7        | 4.62          |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA   | 7        | 4.62          |
| (1,779)  | 1:A:3:PRO:HB2   | 1:A:11:TRP:HZ3 | 1        | 4.62          |
| (1,577)  | 1:A:1:SER:HB2   | 1:A:27:GLY:H   | 16       | 4.62          |
| (1,577)  | 1:A:1:SER:HB3   | 1:A:27:GLY:H   | 16       | 4.62          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1 | 2        | 4.62          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1 | 2        | 4.62          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1 | 7        | 4.62          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1 | 7        | 4.62          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2  | 15       | 4.62          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 7        | 4.62          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 1        | 4.62          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 1        | 4.62          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 3        | 4.62          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2 | 10       | 4.62          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3 | 10       | 4.62          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 5        | 4.62          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 5        | 4.62          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 6        | 4.62          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 2        | 4.62          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 2        | 4.62          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 19       | 4.62          |
| (1,4192) | 1:A:22:GLN:HG2  | 1:A:32:TYR:H   | 14       | 4.62          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 8        | 4.62          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 8        | 4.62          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 9        | 4.62          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 9        | 4.62          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 7        | 4.62          |
| (1,4129) | 1:A:22:GLN:H    | 1:A:34:ALA:H   | 16       | 4.62          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 2        | 4.62          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 17       | 4.62          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 6        | 4.62          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 1        | 4.62          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 13       | 4.62          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 14       | 4.62          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 20       | 4.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 7        | 4.62          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 7        | 4.62          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 7        | 4.62          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3  | 4        | 4.62          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3  | 4        | 4.62          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3  | 12       | 4.62          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3  | 12       | 4.62          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 8        | 4.62          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 8        | 4.62          |
| (1,2701) | 1:A:11:TRP:HB3  | 1:A:26:CYS:H    | 13       | 4.62          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2  | 13       | 4.62          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2  | 7        | 4.62          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3  | 7        | 4.62          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2  | 20       | 4.62          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3  | 20       | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 8        | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 8        | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 8        | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 15       | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 15       | 4.62          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 15       | 4.62          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG2   | 13       | 4.62          |
| (1,1921) | 1:A:7:CYS:H     | 1:A:9:PRO:HG3   | 13       | 4.62          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2  | 9        | 4.62          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3  | 9        | 4.62          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 6        | 4.62          |
| (1,1737) | 1:A:6:GLN:HG3   | 1:A:8:GLY:H     | 17       | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2   | 7        | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3   | 7        | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2   | 8        | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3   | 8        | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD2   | 20       | 4.62          |
| (1,1698) | 1:A:6:GLN:HG2   | 1:A:9:PRO:HD3   | 20       | 4.62          |
| (1,1695) | 1:A:6:GLN:HG2   | 1:A:8:GLY:H     | 6        | 4.62          |
| (1,1567) | 1:A:6:GLN:HA    | 1:A:23:TYR:H    | 16       | 4.62          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 9        | 4.62          |
| (1,1554) | 1:A:6:GLN:HA    | 1:A:11:TRP:HZ3  | 16       | 4.62          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD11 | 9        | 4.62          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD12 | 9        | 4.62          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD13 | 9        | 4.62          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD21 | 9        | 4.62          |
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD22 | 9        | 4.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1144) | 1:A:4:ASN:HB2   | 1:A:18:LEU:HD23 | 9        | 4.62          |
| (1,976)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HD1  | 13       | 4.61          |
| (1,976)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HD2  | 13       | 4.61          |
| (1,976)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HD1  | 20       | 4.61          |
| (1,976)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HD2  | 20       | 4.61          |
| (1,888)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HA    | 18       | 4.61          |
| (1,888)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HA    | 18       | 4.61          |
| (1,719)  | 1:A:2:GLY:HA3   | 1:A:12:GLY:H    | 4        | 4.61          |
| (1,574)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HB3  | 3        | 4.61          |
| (1,574)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HB3  | 3        | 4.61          |
| (1,574)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HB3  | 14       | 4.61          |
| (1,574)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HB3  | 14       | 4.61          |
| (1,4912) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:HA   | 2        | 4.61          |
| (1,4912) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:HA   | 2        | 4.61          |
| (1,4912) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:HA   | 2        | 4.61          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H    | 13       | 4.61          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H    | 13       | 4.61          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H    | 10       | 4.61          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H    | 10       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1  | 11       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2  | 11       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3  | 11       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1  | 19       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2  | 19       | 4.61          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3  | 19       | 4.61          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 3        | 4.61          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 6        | 4.61          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 14       | 4.61          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2  | 14       | 4.61          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3  | 14       | 4.61          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H    | 8        | 4.61          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 11       | 4.61          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 11       | 4.61          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 17       | 4.61          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 17       | 4.61          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 6        | 4.61          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 18       | 4.61          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 10       | 4.61          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1  | 15       | 4.61          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2  | 15       | 4.61          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 1        | 4.61          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 1        | 4.61          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 7        | 4.61          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 7        | 4.61          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2  | 7        | 4.61          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3  | 7        | 4.61          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H    | 4        | 4.61          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 11       | 4.61          |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H    | 7        | 4.61          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 11       | 4.61          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 11       | 4.61          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 11       | 4.61          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1  | 2        | 4.61          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 2        | 4.61          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 2        | 4.61          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 2        | 4.61          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 2        | 4.61          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 2        | 4.61          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 10       | 4.61          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 10       | 4.61          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 10       | 4.61          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG   | 20       | 4.61          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG   | 20       | 4.61          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG   | 20       | 4.61          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 9        | 4.61          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 15       | 4.61          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 18       | 4.61          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 19       | 4.61          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 18       | 4.61          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3  | 2        | 4.61          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3  | 2        | 4.61          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 15       | 4.61          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 1        | 4.61          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 13       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 7        | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 7        | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 16       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 16       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 18       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 18       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2  | 19       | 4.61          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3  | 19       | 4.61          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2  | 1        | 4.61          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 18       | 4.61          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 18       | 4.61          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 18       | 4.61          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 4        | 4.61          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 4        | 4.61          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 9        | 4.61          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 16       | 4.61          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 11       | 4.61          |
| (1,1737) | 1:A:6:GLN:HG3  | 1:A:8:GLY:H     | 5        | 4.61          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H     | 5        | 4.61          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 7        | 4.61          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 1        | 4.61          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 9        | 4.61          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 9        | 4.61          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 12       | 4.61          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 12       | 4.61          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 5        | 4.6           |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 5        | 4.6           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 5        | 4.6           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 5        | 4.6           |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 4        | 4.6           |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 4        | 4.6           |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 19       | 4.6           |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 19       | 4.6           |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 18       | 4.6           |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 20       | 4.6           |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1  | 10       | 4.6           |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2  | 10       | 4.6           |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 10       | 4.6           |
| (1,505)  | 1:A:1:SER:HA   | 1:A:4:ASN:HB2   | 1        | 4.6           |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 6        | 4.6           |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 1        | 4.6           |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 1        | 4.6           |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H    | 1        | 4.6           |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H    | 1        | 4.6           |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H    | 1        | 4.6           |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 2        | 4.6           |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 2        | 4.6           |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 20       | 4.6           |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 20       | 4.6           |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 6        | 4.6           |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2  | 14       | 4.6           |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA   | 8        | 4.6           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA  | 12       | 4.6           |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA  | 13       | 4.6           |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 5        | 4.6           |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 5        | 4.6           |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1 | 13       | 4.6           |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2 | 13       | 4.6           |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 3        | 4.6           |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 2        | 4.6           |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 3        | 4.6           |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 3        | 4.6           |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 3        | 4.6           |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 3        | 4.6           |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 10       | 4.6           |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 10       | 4.6           |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 6        | 4.6           |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 11       | 4.6           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 11       | 4.6           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 11       | 4.6           |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 5        | 4.6           |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 5        | 4.6           |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 1        | 4.6           |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 2        | 4.6           |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 5        | 4.6           |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 10       | 4.6           |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA  | 17       | 4.6           |
| (1,3877) | 1:A:19:CYS:HB2  | 1:A:26:CYS:H   | 9        | 4.6           |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 18       | 4.6           |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 18       | 4.6           |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 18       | 4.6           |
| (1,3724) | 1:A:18:LEU:HB3  | 1:A:33:CYS:HB2 | 14       | 4.6           |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 10       | 4.6           |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 1        | 4.6           |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 13       | 4.6           |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 8        | 4.6           |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 4        | 4.6           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 13       | 4.6           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 13       | 4.6           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 3        | 4.6           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 3        | 4.6           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 6        | 4.6           |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 6        | 4.6           |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2 | 11       | 4.6           |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,2370) | 1:A:9:PRO:HG3 | 1:A:12:GLY:HA2  | 15       | 4.6           |
| (1,2060) | 1:A:8:GLY:H   | 1:A:26:CYS:HB2  | 19       | 4.6           |
| (1,2060) | 1:A:8:GLY:H   | 1:A:26:CYS:HB3  | 19       | 4.6           |
| (1,2001) | 1:A:7:CYS:HB2 | 1:A:23:TYR:H    | 3        | 4.6           |
| (1,2001) | 1:A:7:CYS:HB3 | 1:A:23:TYR:H    | 3        | 4.6           |
| (1,2001) | 1:A:7:CYS:HB2 | 1:A:23:TYR:H    | 4        | 4.6           |
| (1,2001) | 1:A:7:CYS:HB3 | 1:A:23:TYR:H    | 4        | 4.6           |
| (1,1938) | 1:A:7:CYS:H   | 1:A:18:LEU:HD11 | 7        | 4.6           |
| (1,1938) | 1:A:7:CYS:H   | 1:A:18:LEU:HD12 | 7        | 4.6           |
| (1,1938) | 1:A:7:CYS:H   | 1:A:18:LEU:HD13 | 7        | 4.6           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 1        | 4.6           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 7        | 4.6           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 8        | 4.6           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 18       | 4.6           |
| (1,1768) | 1:A:6:GLN:HG3 | 1:A:26:CYS:HA   | 19       | 4.6           |
| (1,1763) | 1:A:6:GLN:HG3 | 1:A:24:GLY:H    | 9        | 4.6           |
| (1,1698) | 1:A:6:GLN:HG2 | 1:A:9:PRO:HD2   | 18       | 4.6           |
| (1,1698) | 1:A:6:GLN:HG2 | 1:A:9:PRO:HD3   | 18       | 4.6           |
| (1,1567) | 1:A:6:GLN:HA  | 1:A:23:TYR:H    | 3        | 4.6           |
| (1,1567) | 1:A:6:GLN:HA  | 1:A:23:TYR:H    | 4        | 4.6           |
| (1,1567) | 1:A:6:GLN:HA  | 1:A:23:TYR:H    | 6        | 4.6           |
| (1,1408) | 1:A:5:GLY:H   | 1:A:11:TRP:HZ3  | 2        | 4.6           |
| (1,1222) | 1:A:4:ASN:HB3 | 1:A:25:TYR:H    | 3        | 4.6           |
| (1,1004) | 1:A:3:PRO:HD3 | 1:A:11:TRP:HZ2  | 2        | 4.6           |
| (1,977)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HE1  | 16       | 4.59          |
| (1,977)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HE2  | 16       | 4.59          |
| (1,976)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HD1  | 9        | 4.59          |
| (1,976)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HD2  | 9        | 4.59          |
| (1,976)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HD1  | 18       | 4.59          |
| (1,976)  | 1:A:3:PRO:HD2 | 1:A:25:TYR:HD2  | 18       | 4.59          |
| (1,888)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HA    | 14       | 4.59          |
| (1,888)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HA    | 14       | 4.59          |
| (1,762)  | 1:A:3:PRO:HA  | 1:A:26:CYS:HB2  | 19       | 4.59          |
| (1,645)  | 1:A:2:GLY:H   | 1:A:25:TYR:HE1  | 8        | 4.59          |
| (1,645)  | 1:A:2:GLY:H   | 1:A:25:TYR:HE2  | 8        | 4.59          |
| (1,644)  | 1:A:2:GLY:H   | 1:A:25:TYR:HD1  | 12       | 4.59          |
| (1,644)  | 1:A:2:GLY:H   | 1:A:25:TYR:HD2  | 12       | 4.59          |
| (1,559)  | 1:A:1:SER:HB2 | 1:A:18:LEU:HD21 | 14       | 4.59          |
| (1,559)  | 1:A:1:SER:HB2 | 1:A:18:LEU:HD22 | 14       | 4.59          |
| (1,559)  | 1:A:1:SER:HB2 | 1:A:18:LEU:HD23 | 14       | 4.59          |
| (1,559)  | 1:A:1:SER:HB3 | 1:A:18:LEU:HD21 | 14       | 4.59          |
| (1,559)  | 1:A:1:SER:HB3 | 1:A:18:LEU:HD22 | 14       | 4.59          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 14       | 4.59          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG   | 13       | 4.59          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG   | 13       | 4.59          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1  | 17       | 4.59          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1  | 17       | 4.59          |
| (1,505)  | 1:A:1:SER:HA    | 1:A:4:ASN:HB2   | 4        | 4.59          |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3  | 5        | 4.59          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H    | 1        | 4.59          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H    | 8        | 4.59          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2  | 16       | 4.59          |
| (1,4734) | 1:A:28:SER:H    | 1:A:33:CYS:HA   | 15       | 4.59          |
| (1,4544) | 1:A:25:TYR:HB3  | 1:A:28:SER:H    | 14       | 4.59          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 2        | 4.59          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 2        | 4.59          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 15       | 4.59          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 15       | 4.59          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 4        | 4.59          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 6        | 4.59          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 1        | 4.59          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 1        | 4.59          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 1        | 4.59          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 1        | 4.59          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2  | 20       | 4.59          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2  | 20       | 4.59          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3  | 20       | 4.59          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3  | 20       | 4.59          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H    | 1        | 4.59          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1  | 3        | 4.59          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 6        | 4.59          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 6        | 4.59          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2  | 7        | 4.59          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3  | 7        | 4.59          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 15       | 4.59          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 15       | 4.59          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2  | 6        | 4.59          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3  | 6        | 4.59          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H    | 14       | 4.59          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 4        | 4.59          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 9        | 4.59          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 15       | 4.59          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 15       | 4.59          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 15       | 4.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3632) | 1:A:17:GLY:HA3 | 1:A:27:GLY:H    | 7        | 4.59          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 1        | 4.59          |
| (1,3396) | 1:A:15:ARG:HD2 | 1:A:19:CYS:H    | 13       | 4.59          |
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 13       | 4.59          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA   | 4        | 4.59          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA   | 4        | 4.59          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 3        | 4.59          |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3  | 15       | 4.59          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 10       | 4.59          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 10       | 4.59          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 20       | 4.59          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 20       | 4.59          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 17       | 4.59          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 18       | 4.59          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 18       | 4.59          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 1        | 4.59          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 19       | 4.59          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 19       | 4.59          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 19       | 4.59          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 14       | 4.59          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 14       | 4.59          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 11       | 4.59          |
| (1,1768) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HA   | 20       | 4.59          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD2   | 19       | 4.59          |
| (1,1698) | 1:A:6:GLN:HG2  | 1:A:9:PRO:HD3   | 19       | 4.59          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 14       | 4.59          |
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3  | 11       | 4.59          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 17       | 4.59          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 4        | 4.59          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 2        | 4.59          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 10       | 4.59          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 13       | 4.59          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 16       | 4.58          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 16       | 4.58          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 19       | 4.58          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 19       | 4.58          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 9        | 4.58          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 9        | 4.58          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 9        | 4.58          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 9        | 4.58          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H    | 3        | 4.58          |
| (1,620)  | 1:A:2:GLY:H    | 1:A:15:ARG:HD2  | 1        | 4.58          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,620)  | 1:A:2:GLY:H     | 1:A:15:ARG:HD3  | 1        | 4.58          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1  | 18       | 4.58          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1  | 18       | 4.58          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H    | 4        | 4.58          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H    | 4        | 4.58          |
| (1,4828) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HA   | 16       | 4.58          |
| (1,4828) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HA   | 16       | 4.58          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB2  | 1        | 4.58          |
| (1,4528) | 1:A:25:TYR:H    | 1:A:35:HIS:HB3  | 1        | 4.58          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE1  | 4        | 4.58          |
| (1,4480) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HE2  | 4        | 4.58          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2  | 16       | 4.58          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3  | 16       | 4.58          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB2  | 18       | 4.58          |
| (1,4478) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HB3  | 18       | 4.58          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 17       | 4.58          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H    | 5        | 4.58          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 10       | 4.58          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1  | 3        | 4.58          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2  | 3        | 4.58          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1  | 7        | 4.58          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2  | 7        | 4.58          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 14       | 4.58          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 14       | 4.58          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H    | 11       | 4.58          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 3        | 4.58          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 3        | 4.58          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 17       | 4.58          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 17       | 4.58          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 3        | 4.58          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 4        | 4.58          |
| (1,3912) | 1:A:20:CYS:H    | 1:A:22:GLN:HA   | 6        | 4.58          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 3        | 4.58          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 6        | 4.58          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 7        | 4.58          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 7        | 4.58          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 15       | 4.58          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 2        | 4.58          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 2        | 4.58          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 3        | 4.58          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 3        | 4.58          |
| (1,3271) | 1:A:15:ARG:H    | 1:A:26:CYS:HA   | 4        | 4.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 10       | 4.58          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 2        | 4.58          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 2        | 4.58          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 9        | 4.58          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 9        | 4.58          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 1        | 4.58          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 1        | 4.58          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 14       | 4.58          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 2        | 4.58          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 5        | 4.58          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 10       | 4.58          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 11       | 4.58          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 1        | 4.58          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 1        | 4.58          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 2        | 4.58          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 2        | 4.58          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 10       | 4.58          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 10       | 4.58          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 14       | 4.58          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 14       | 4.58          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 1        | 4.58          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 5        | 4.58          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 12       | 4.58          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 5        | 4.58          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 6        | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD11 | 20       | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD12 | 20       | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD13 | 20       | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD21 | 20       | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD22 | 20       | 4.58          |
| (1,1144) | 1:A:4:ASN:HB2  | 1:A:18:LEU:HD23 | 20       | 4.58          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 20       | 4.58          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1  | 20       | 4.57          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2  | 20       | 4.57          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 4        | 4.57          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 4        | 4.57          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 4        | 4.57          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 6        | 4.57          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1  | 14       | 4.57          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2  | 14       | 4.57          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1  | 14       | 4.57          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2  | 14       | 4.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H   | 10       | 4.57          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H   | 10       | 4.57          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 11       | 4.57          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 11       | 4.57          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 19       | 4.57          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 19       | 4.57          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 6        | 4.57          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 6        | 4.57          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 6        | 4.57          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 6        | 4.57          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1 | 19       | 4.57          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1 | 19       | 4.57          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 20       | 4.57          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 8        | 4.57          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 8        | 4.57          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 8        | 4.57          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2 | 14       | 4.57          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3 | 14       | 4.57          |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA  | 9        | 4.57          |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA  | 17       | 4.57          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 14       | 4.57          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 14       | 4.57          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 16       | 4.57          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 16       | 4.57          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 3        | 4.57          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 4        | 4.57          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 6        | 4.57          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE1 | 8        | 4.57          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE2 | 8        | 4.57          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE1 | 9        | 4.57          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE2 | 9        | 4.57          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2 | 19       | 4.57          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3 | 19       | 4.57          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB2 | 20       | 4.57          |
| (1,4478) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HB3 | 20       | 4.57          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H   | 13       | 4.57          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 5        | 4.57          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 5        | 4.57          |
| (1,4395) | 1:A:23:TYR:HD1 | 1:A:27:GLY:H   | 14       | 4.57          |
| (1,4395) | 1:A:23:TYR:HD2 | 1:A:27:GLY:H   | 14       | 4.57          |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 11       | 4.57          |
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE1 | 7        | 4.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE2  | 7        | 4.57          |
| (1,4158) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HB3  | 14       | 4.57          |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H    | 1        | 4.57          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3  | 2        | 4.57          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 16       | 4.57          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 16       | 4.57          |
| (1,3945) | 1:A:20:CYS:H   | 1:A:34:ALA:H    | 12       | 4.57          |
| (1,3741) | 1:A:18:LEU:HG  | 1:A:26:CYS:H    | 20       | 4.57          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2  | 6        | 4.57          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3  | 6        | 4.57          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG   | 10       | 4.57          |
| (1,3380) | 1:A:15:ARG:HG2 | 1:A:28:SER:HB3  | 13       | 4.57          |
| (1,3380) | 1:A:15:ARG:HG3 | 1:A:28:SER:HB3  | 13       | 4.57          |
| (1,3377) | 1:A:15:ARG:HG2 | 1:A:27:GLY:H    | 14       | 4.57          |
| (1,3377) | 1:A:15:ARG:HG3 | 1:A:27:GLY:H    | 14       | 4.57          |
| (1,3343) | 1:A:15:ARG:HB3 | 1:A:27:GLY:HA2  | 15       | 4.57          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 13       | 4.57          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 13       | 4.57          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 12       | 4.57          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 16       | 4.57          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 18       | 4.57          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 3        | 4.57          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 4        | 4.57          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 6        | 4.57          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 8        | 4.57          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 8        | 4.57          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 16       | 4.57          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 16       | 4.57          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD1  | 17       | 4.57          |
| (1,2057) | 1:A:8:GLY:H    | 1:A:25:TYR:HD2  | 17       | 4.57          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 12       | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1  | 6        | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2  | 6        | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1  | 9        | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2  | 9        | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1  | 12       | 4.57          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2  | 12       | 4.57          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 5        | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3   | 7        | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3   | 8        | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3   | 11       | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3   | 12       | 4.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 16       | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 17       | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 18       | 4.57          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 19       | 4.57          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2 | 3        | 4.57          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 2        | 4.56          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 2        | 4.56          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 10       | 4.56          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 10       | 4.56          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 2        | 4.56          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 2        | 4.56          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 12       | 4.56          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 12       | 4.56          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA   | 3        | 4.56          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA   | 3        | 4.56          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2 | 16       | 4.56          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB2 | 17       | 4.56          |
| (1,617)  | 1:A:2:GLY:H    | 1:A:14:CYS:HB3 | 17       | 4.56          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 5        | 4.56          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 5        | 4.56          |
| (1,4933) | 1:A:32:TYR:HE1 | 1:A:35:HIS:H   | 16       | 4.56          |
| (1,4933) | 1:A:32:TYR:HE2 | 1:A:35:HIS:H   | 16       | 4.56          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 12       | 4.56          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 4        | 4.56          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 4        | 4.56          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 17       | 4.56          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 17       | 4.56          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2 | 4        | 4.56          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3 | 4        | 4.56          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 10       | 4.56          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 17       | 4.56          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 19       | 4.56          |
| (1,4790) | 1:A:29:GLY:HA3 | 1:A:35:HIS:HB2 | 10       | 4.56          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 19       | 4.56          |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA  | 11       | 4.56          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ1 | 4        | 4.56          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ2 | 4        | 4.56          |
| (1,4701) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HZ3 | 4        | 4.56          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 18       | 4.56          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 18       | 4.56          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE1 | 14       | 4.56          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE2 | 14       | 4.56          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 4        | 4.56          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 4        | 4.56          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 13       | 4.56          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 13       | 4.56          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 5        | 4.56          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 5        | 4.56          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 2        | 4.56          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 1        | 4.56          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 1        | 4.56          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 2        | 4.56          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 2        | 4.56          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 14       | 4.56          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 16       | 4.56          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 8        | 4.56          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 8        | 4.56          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 9        | 4.56          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 9        | 4.56          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 4        | 4.56          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 4        | 4.56          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 13       | 4.56          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 13       | 4.56          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 11       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 12       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 12       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 12       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 14       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 14       | 4.56          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 14       | 4.56          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 5        | 4.56          |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H   | 17       | 4.56          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 9        | 4.56          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 17       | 4.56          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 3        | 4.56          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 3        | 4.56          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 3        | 4.56          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 4        | 4.56          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 9        | 4.56          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 5        | 4.56          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 5        | 4.56          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 17       | 4.56          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 17       | 4.56          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 10       | 4.56          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 2        | 4.56          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 2        | 4.56          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2  | 4        | 4.56          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3  | 4        | 4.56          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 12       | 4.56          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 12       | 4.56          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA2  | 5        | 4.56          |
| (1,3010) | 1:A:12:GLY:H   | 1:A:24:GLY:HA3  | 5        | 4.56          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 15       | 4.56          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 15       | 4.56          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 7        | 4.56          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 8        | 4.56          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 19       | 4.56          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 20       | 4.56          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 12       | 4.56          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 12       | 4.56          |
| (1,2056) | 1:A:8:GLY:H    | 1:A:25:TYR:H    | 17       | 4.56          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 3        | 4.56          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 3        | 4.56          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 3        | 4.56          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 3        | 4.56          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 6        | 4.56          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 6        | 4.56          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 11       | 4.56          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 11       | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 9        | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 9        | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 9        | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 13       | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 13       | 4.56          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 13       | 4.56          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 3        | 4.56          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 3        | 4.56          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2   | 4        | 4.56          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3   | 4        | 4.56          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 3        | 4.56          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 3        | 4.56          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 5        | 4.56          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 6        | 4.56          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 10       | 4.56          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 2        | 4.56          |
| (1,1567) | 1:A:6:GLN:HA   | 1:A:23:TYR:H    | 10       | 4.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1554) | 1:A:6:GLN:HA   | 1:A:11:TRP:HZ3 | 17       | 4.56          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 14       | 4.56          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 11       | 4.56          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 11       | 4.56          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3 | 6        | 4.56          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 13       | 4.56          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2 | 1        | 4.56          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 10       | 4.55          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 10       | 4.55          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 2        | 4.55          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 17       | 4.55          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3 | 5        | 4.55          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 17       | 4.55          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 17       | 4.55          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 7        | 4.55          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 7        | 4.55          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 1        | 4.55          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 1        | 4.55          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 4        | 4.55          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 4        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 8        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 8        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 8        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 8        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 8        | 4.55          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 8        | 4.55          |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 3        | 4.55          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 2        | 4.55          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 2        | 4.55          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 2        | 4.55          |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA  | 1        | 4.55          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 13       | 4.55          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 13       | 4.55          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 19       | 4.55          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 19       | 4.55          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 20       | 4.55          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 20       | 4.55          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE1 | 7        | 4.55          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE2 | 7        | 4.55          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE1 | 12       | 4.55          |
| (1,4480) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HE2 | 12       | 4.55          |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H   | 1        | 4.55          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 12       | 4.55          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 12       | 4.55          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2  | 4        | 4.55          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3  | 4        | 4.55          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 10       | 4.55          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 10       | 4.55          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 10       | 4.55          |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 16       | 4.55          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 2        | 4.55          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H    | 6        | 4.55          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1  | 16       | 4.55          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2  | 16       | 4.55          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1  | 18       | 4.55          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2  | 18       | 4.55          |
| (1,4164) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HB3  | 15       | 4.55          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 11       | 4.55          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 11       | 4.55          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H    | 16       | 4.55          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H    | 4        | 4.55          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H    | 11       | 4.55          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 2        | 4.55          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 1        | 4.55          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 1        | 4.55          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 1        | 4.55          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 17       | 4.55          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 7        | 4.55          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 16       | 4.55          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 18       | 4.55          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 19       | 4.55          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 9        | 4.55          |
| (1,3271) | 1:A:15:ARG:H    | 1:A:26:CYS:HA   | 2        | 4.55          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 11       | 4.55          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2  | 3        | 4.55          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3  | 3        | 4.55          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 11       | 4.55          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 11       | 4.55          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2  | 9        | 4.55          |
| (1,2145) | 1:A:9:PRO:HA    | 1:A:13:GLY:H    | 9        | 4.55          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H    | 15       | 4.55          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD11 | 20       | 4.55          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD12 | 20       | 4.55          |
| (1,1938) | 1:A:7:CYS:H     | 1:A:18:LEU:HD13 | 20       | 4.55          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2  | 6        | 4.55          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3  | 6        | 4.55          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 1        | 4.55          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 12       | 4.55          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 15       | 4.55          |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H   | 9        | 4.55          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 8        | 4.55          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 7        | 4.55          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 8        | 4.55          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 8        | 4.55          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 3        | 4.55          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 4        | 4.55          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 2        | 4.55          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 18       | 4.54          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 18       | 4.54          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 1        | 4.54          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 1        | 4.54          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 15       | 4.54          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 15       | 4.54          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 1        | 4.54          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 1        | 4.54          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 1        | 4.54          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 1        | 4.54          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 7        | 4.54          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 7        | 4.54          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3 | 15       | 4.54          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 12       | 4.54          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 12       | 4.54          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 6        | 4.54          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 6        | 4.54          |
| (1,4848) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HD2 | 10       | 4.54          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3 | 12       | 4.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 10       | 4.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 10       | 4.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 10       | 4.54          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2 | 16       | 4.54          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3 | 16       | 4.54          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE2 | 12       | 4.54          |
| (1,4730) | 1:A:28:SER:H   | 1:A:31:LYS:HE3 | 12       | 4.54          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1 | 12       | 4.54          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2 | 12       | 4.54          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3 | 12       | 4.54          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2  | 5        | 4.54          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2  | 5        | 4.54          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 2        | 4.54          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 5        | 4.54          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 11       | 4.54          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H    | 15       | 4.54          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H    | 3        | 4.54          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 12       | 4.54          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 12       | 4.54          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H    | 13       | 4.54          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 6        | 4.54          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 6        | 4.54          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 19       | 4.54          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 18       | 4.54          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 10       | 4.54          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H    | 1        | 4.54          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H    | 2        | 4.54          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H    | 20       | 4.54          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 5        | 4.54          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 13       | 4.54          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 19       | 4.54          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 20       | 4.54          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 17       | 4.54          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 17       | 4.54          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 17       | 4.54          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 9        | 4.54          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 9        | 4.54          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 9        | 4.54          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H    | 9        | 4.54          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 4        | 4.54          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 6        | 4.54          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 1        | 4.54          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 1        | 4.54          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE   | 9        | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 12       | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 12       | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 12       | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 12       | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 12       | 4.54          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 12       | 4.54          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2  | 9        | 4.54          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3  | 9        | 4.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 7        | 4.54          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 18       | 4.54          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 19       | 4.54          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 20       | 4.54          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1 | 4        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2 | 4        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1 | 4        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2 | 4        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1 | 6        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2 | 6        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1 | 6        | 4.54          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2 | 6        | 4.54          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H   | 5        | 4.54          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 5        | 4.54          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H   | 13       | 4.54          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 13       | 4.54          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H   | 15       | 4.54          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 15       | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2  | 2        | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3  | 2        | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2  | 5        | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3  | 5        | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2  | 10       | 4.54          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3  | 10       | 4.54          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 20       | 4.54          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 2        | 4.54          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 18       | 4.54          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 19       | 4.54          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 20       | 4.54          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 1        | 4.54          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 16       | 4.54          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 19       | 4.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 1        | 4.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 1        | 4.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 14       | 4.54          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 14       | 4.54          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 13       | 4.54          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 3        | 4.54          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 5        | 4.54          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 6        | 4.54          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 10       | 4.54          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H   | 4        | 4.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 3        | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 13       | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 13       | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 13       | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 13       | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 13       | 4.54          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 13       | 4.54          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 1        | 4.54          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 16       | 4.53          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 16       | 4.53          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 20       | 4.53          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 20       | 4.53          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 2        | 4.53          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 2        | 4.53          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 3        | 4.53          |
| (1,762)  | 1:A:3:PRO:HA   | 1:A:26:CYS:HB2  | 7        | 4.53          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H    | 1        | 4.53          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 3        | 4.53          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 3        | 4.53          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 3        | 4.53          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 3        | 4.53          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 5        | 4.53          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 5        | 4.53          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 14       | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 5        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 9        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 9        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 9        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 9        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 9        | 4.53          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 9        | 4.53          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H    | 11       | 4.53          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 20       | 4.53          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 20       | 4.53          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H    | 3        | 4.53          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H    | 4        | 4.53          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H    | 7        | 4.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 10       | 4.53          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 3        | 4.53          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 3        | 4.53          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 4        | 4.53          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 17       | 4.53          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H   | 17       | 4.53          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 20       | 4.53          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 8        | 4.53          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 8        | 4.53          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 17       | 4.53          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 17       | 4.53          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 12       | 4.53          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 12       | 4.53          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 5        | 4.53          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 11       | 4.53          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 11       | 4.53          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 10       | 4.53          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 10       | 4.53          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG2 | 20       | 4.53          |
| (1,4035) | 1:A:21:SER:H    | 1:A:31:LYS:HG3 | 20       | 4.53          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB1 | 8        | 4.53          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB2 | 8        | 4.53          |
| (1,3978) | 1:A:20:CYS:HB2  | 1:A:34:ALA:HB3 | 8        | 4.53          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 7        | 4.53          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 13       | 4.53          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 16       | 4.53          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 18       | 4.53          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 8        | 4.53          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 10       | 4.53          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 3        | 4.53          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 6        | 4.53          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 18       | 4.53          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 15       | 4.53          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 15       | 4.53          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 15       | 4.53          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 3        | 4.53          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 13       | 4.53          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 20       | 4.53          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 2        | 4.53          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 3        | 4.53          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 10       | 4.53          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 20       | 4.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3609) | 1:A:17:GLY:HA2 | 1:A:28:SER:H   | 3        | 4.53          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2 | 18       | 4.53          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3 | 18       | 4.53          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2 | 19       | 4.53          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3 | 19       | 4.53          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 8        | 4.53          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 16       | 4.53          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2 | 13       | 4.53          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3 | 13       | 4.53          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2 | 15       | 4.53          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3 | 15       | 4.53          |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H   | 12       | 4.53          |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H   | 20       | 4.53          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 18       | 4.53          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 19       | 4.53          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 18       | 4.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 3        | 4.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 3        | 4.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 11       | 4.53          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 11       | 4.53          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG  | 1        | 4.53          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG  | 11       | 4.53          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3 | 3        | 4.53          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 19       | 4.52          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 19       | 4.52          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 15       | 4.52          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 15       | 4.52          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 15       | 4.52          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 15       | 4.52          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 8        | 4.52          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 8        | 4.52          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA   | 10       | 4.52          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA   | 10       | 4.52          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 2        | 4.52          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 5        | 4.52          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 6        | 4.52          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 20       | 4.52          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 13       | 4.52          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 14       | 4.52          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2 | 9        | 4.52          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3 | 9        | 4.52          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 6        | 4.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 6        | 4.52          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 6        | 4.52          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 6        | 4.52          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 6        | 4.52          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 6        | 4.52          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 9        | 4.52          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 10       | 4.52          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 10       | 4.52          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 10       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 18       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 18       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 19       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 19       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 20       | 4.52          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 20       | 4.52          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 9        | 4.52          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 9        | 4.52          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 14       | 4.52          |
| (1,4734) | 1:A:28:SER:H   | 1:A:33:CYS:HA  | 7        | 4.52          |
| (1,4544) | 1:A:25:TYR:HB3 | 1:A:28:SER:H   | 12       | 4.52          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H   | 6        | 4.52          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA  | 5        | 4.52          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA  | 5        | 4.52          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA  | 17       | 4.52          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA  | 17       | 4.52          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 8        | 4.52          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 8        | 4.52          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2 | 3        | 4.52          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2 | 3        | 4.52          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3 | 3        | 4.52          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3 | 3        | 4.52          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2 | 9        | 4.52          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3 | 9        | 4.52          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2 | 9        | 4.52          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3 | 9        | 4.52          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 7        | 4.52          |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 7        | 4.52          |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H   | 10       | 4.52          |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H   | 10       | 4.52          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2 | 18       | 4.52          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3 | 18       | 4.52          |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 6        | 4.52          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 7        | 4.52          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 7        | 4.52          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 9        | 4.52          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 9        | 4.52          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 16       | 4.52          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 20       | 4.52          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 1        | 4.52          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 1        | 4.52          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 3        | 4.52          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 8        | 4.52          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 18       | 4.52          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 19       | 4.52          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 20       | 4.52          |
| (1,3940) | 1:A:20:CYS:H    | 1:A:32:TYR:H   | 19       | 4.52          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 15       | 4.52          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 5        | 4.52          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 7        | 4.52          |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2 | 6        | 4.52          |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2 | 6        | 4.52          |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2 | 6        | 4.52          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 11       | 4.52          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 11       | 4.52          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 11       | 4.52          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 8        | 4.52          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 4        | 4.52          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 9        | 4.52          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 9        | 4.52          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 3        | 4.52          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 3        | 4.52          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2 | 7        | 4.52          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3 | 7        | 4.52          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 13       | 4.52          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE1 | 12       | 4.52          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE2 | 12       | 4.52          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE1 | 12       | 4.52          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE2 | 12       | 4.52          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2 | 12       | 4.52          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3 | 12       | 4.52          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 7        | 4.52          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 8        | 4.52          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 11       | 4.52          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 16       | 4.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H   | 18       | 4.52          |
| (1,1629) | 1:A:6:GLN:HB3  | 1:A:12:GLY:HA3 | 17       | 4.52          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 8        | 4.52          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 12       | 4.52          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 15       | 4.52          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H   | 20       | 4.52          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 14       | 4.52          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 3        | 4.52          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2 | 15       | 4.52          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 3        | 4.51          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 3        | 4.51          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 4        | 4.51          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 4        | 4.51          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 18       | 4.51          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 18       | 4.51          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2 | 19       | 4.51          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2 | 19       | 4.51          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 15       | 4.51          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2 | 15       | 4.51          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 10       | 4.51          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 10       | 4.51          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 18       | 4.51          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG2 | 16       | 4.51          |
| (1,515)  | 1:A:1:SER:HA   | 1:A:15:ARG:HG3 | 16       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 1        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 3        | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 11       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 11       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 11       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 11       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 11       | 4.51          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 11       | 4.51          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 5        | 4.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 20       | 4.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 20       | 4.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 20       | 4.51          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 12       | 4.51          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 9        | 4.51          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 20       | 4.51          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 20       | 4.51          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 20       | 4.51          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 20       | 4.51          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 8        | 4.51          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 8        | 4.51          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 2        | 4.51          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 11       | 4.51          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 11       | 4.51          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 3        | 4.51          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 3        | 4.51          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 8        | 4.51          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 8        | 4.51          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 8        | 4.51          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 6        | 4.51          |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H   | 7        | 4.51          |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H   | 16       | 4.51          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 15       | 4.51          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 4        | 4.51          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 4        | 4.51          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 4        | 4.51          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 8        | 4.51          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 8        | 4.51          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 8        | 4.51          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 15       | 4.51          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 15       | 4.51          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 15       | 4.51          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 5        | 4.51          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 5        | 4.51          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 5        | 4.51          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 5        | 4.51          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 5        | 4.51          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 5        | 4.51          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 5        | 4.51          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 20       | 4.51          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 16       | 4.51          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3  | 16       | 4.51          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA   | 16       | 4.51          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA   | 16       | 4.51          |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA   | 8        | 4.51          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 17       | 4.51          |
| (1,3258) | 1:A:15:ARG:H   | 1:A:19:CYS:HB3  | 15       | 4.51          |
| (1,3149) | 1:A:13:GLY:HA3 | 1:A:18:LEU:HB3  | 3        | 4.51          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 8        | 4.51          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 8        | 4.51          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 9        | 4.51          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 14       | 4.51          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 17       | 4.51          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 1        | 4.51          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 1        | 4.51          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 8        | 4.51          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 13       | 4.51          |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H    | 1        | 4.51          |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H    | 19       | 4.51          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 1        | 4.51          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 3        | 4.51          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 13       | 4.51          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 7        | 4.51          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 11       | 4.51          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 1        | 4.51          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 1        | 4.51          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 15       | 4.51          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 4        | 4.51          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 10       | 4.51          |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 6        | 4.5           |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 6        | 4.5           |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H    | 18       | 4.5           |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 4        | 4.5           |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 4        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 3        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 3        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 3        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 3        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 3        | 4.5           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 3        | 4.5           |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 16       | 4.5           |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 17       | 4.5           |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 17       | 4.5           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 17       | 4.5           |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 17       | 4.5           |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 17       | 4.5           |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 17       | 4.5           |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2 | 16       | 4.5           |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2 | 16       | 4.5           |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2 | 16       | 4.5           |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H   | 9        | 4.5           |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H   | 9        | 4.5           |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA  | 16       | 4.5           |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 1        | 4.5           |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 6        | 4.5           |
| (1,4860) | 1:A:31:LYS:HB2 | 1:A:33:CYS:HA  | 15       | 4.5           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 4        | 4.5           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 4        | 4.5           |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2 | 12       | 4.5           |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2 | 12       | 4.5           |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3 | 12       | 4.5           |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3 | 12       | 4.5           |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H   | 10       | 4.5           |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 9        | 4.5           |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 9        | 4.5           |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 9        | 4.5           |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 9        | 4.5           |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 9        | 4.5           |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 9        | 4.5           |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H   | 16       | 4.5           |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H   | 16       | 4.5           |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 2        | 4.5           |
| (1,4249) | 1:A:22:GLN:HG3 | 1:A:25:TYR:H   | 6        | 4.5           |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD1 | 10       | 4.5           |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD2 | 10       | 4.5           |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 15       | 4.5           |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 15       | 4.5           |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 15       | 4.5           |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 18       | 4.5           |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 19       | 4.5           |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3 | 19       | 4.5           |
| (1,4025) | 1:A:21:SER:H   | 1:A:28:SER:H   | 3        | 4.5           |
| (1,4025) | 1:A:21:SER:H   | 1:A:28:SER:H   | 5        | 4.5           |
| (1,4009) | 1:A:20:CYS:HB3 | 1:A:35:HIS:H   | 7        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2 | 1:A:23:TYR:H   | 1        | 4.5           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 3        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 4        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 5        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 6        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 8        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 9        | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 11       | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 13       | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 15       | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 18       | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 19       | 4.5           |
| (1,3956) | 1:A:20:CYS:HB2  | 1:A:23:TYR:H    | 20       | 4.5           |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 14       | 4.5           |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 14       | 4.5           |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 15       | 4.5           |
| (1,3799) | 1:A:18:LEU:HD21 | 1:A:20:CYS:HB2  | 5        | 4.5           |
| (1,3799) | 1:A:18:LEU:HD22 | 1:A:20:CYS:HB2  | 5        | 4.5           |
| (1,3799) | 1:A:18:LEU:HD23 | 1:A:20:CYS:HB2  | 5        | 4.5           |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 1        | 4.5           |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 1        | 4.5           |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 1        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 3        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 3        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 3        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 4        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 4        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 4        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 8        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 8        | 4.5           |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 8        | 4.5           |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H    | 9        | 4.5           |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 1        | 4.5           |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2  | 7        | 4.5           |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3  | 7        | 4.5           |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 12       | 4.5           |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 11       | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 8        | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 8        | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 8        | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 8        | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 8        | 4.5           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 8        | 4.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 20       | 4.5           |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 20       | 4.5           |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2  | 3        | 4.5           |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 7        | 4.5           |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 8        | 4.5           |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 20       | 4.5           |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 11       | 4.5           |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 11       | 4.5           |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 11       | 4.5           |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H    | 4        | 4.5           |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H    | 15       | 4.5           |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 4        | 4.5           |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 7        | 4.5           |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 14       | 4.5           |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 8        | 4.5           |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 20       | 4.5           |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 13       | 4.5           |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 7        | 4.5           |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 7        | 4.5           |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 12       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 17       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 17       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 17       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 17       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 17       | 4.5           |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 17       | 4.5           |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 11       | 4.5           |
| (1,888)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HA    | 5        | 4.49          |
| (1,888)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HA    | 5        | 4.49          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H    | 10       | 4.49          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 1        | 4.49          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 13       | 4.49          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 13       | 4.49          |
| (1,562)  | 1:A:1:SER:HB2  | 1:A:21:SER:H    | 9        | 4.49          |
| (1,562)  | 1:A:1:SER:HB3  | 1:A:21:SER:H    | 9        | 4.49          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA   | 11       | 4.49          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA   | 11       | 4.49          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA   | 11       | 4.49          |
| (1,4901) | 1:A:31:LYS:HD2 | 1:A:35:HIS:H    | 15       | 4.49          |
| (1,4901) | 1:A:31:LYS:HD3 | 1:A:35:HIS:H    | 15       | 4.49          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1  | 16       | 4.49          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2  | 16       | 4.49          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 10       | 4.49          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 10       | 4.49          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3 | 10       | 4.49          |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H   | 13       | 4.49          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H   | 19       | 4.49          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA  | 8        | 4.49          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA  | 8        | 4.49          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 4        | 4.49          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 4        | 4.49          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 18       | 4.49          |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 18       | 4.49          |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 5        | 4.49          |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD1 | 20       | 4.49          |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD2 | 20       | 4.49          |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD1 | 5        | 4.49          |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD2 | 5        | 4.49          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE1 | 2        | 4.49          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE2 | 2        | 4.49          |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 9        | 4.49          |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 20       | 4.49          |
| (1,4025) | 1:A:21:SER:H   | 1:A:28:SER:H   | 6        | 4.49          |
| (1,3956) | 1:A:20:CYS:HB2 | 1:A:23:TYR:H   | 2        | 4.49          |
| (1,3956) | 1:A:20:CYS:HB2 | 1:A:23:TYR:H   | 10       | 4.49          |
| (1,3956) | 1:A:20:CYS:HB2 | 1:A:23:TYR:H   | 12       | 4.49          |
| (1,3956) | 1:A:20:CYS:HB2 | 1:A:23:TYR:H   | 14       | 4.49          |
| (1,3887) | 1:A:19:CYS:HB3 | 1:A:21:SER:HG  | 1        | 4.49          |
| (1,3887) | 1:A:19:CYS:HB3 | 1:A:21:SER:HG  | 11       | 4.49          |
| (1,3848) | 1:A:19:CYS:H   | 1:A:34:ALA:H   | 13       | 4.49          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H   | 18       | 4.49          |
| (1,3694) | 1:A:18:LEU:HB2 | 1:A:29:GLY:H   | 19       | 4.49          |
| (1,3676) | 1:A:18:LEU:HB2 | 1:A:21:SER:H   | 8        | 4.49          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2 | 18       | 4.49          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3 | 18       | 4.49          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB2 | 19       | 4.49          |
| (1,3473) | 1:A:16:GLY:H   | 1:A:26:CYS:HB3 | 19       | 4.49          |
| (1,3258) | 1:A:15:ARG:H   | 1:A:19:CYS:HB3 | 1        | 4.49          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2 | 4        | 4.49          |
| (1,2370) | 1:A:9:PRO:HG3  | 1:A:12:GLY:HA2 | 6        | 4.49          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 12       | 4.49          |
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H   | 14       | 4.49          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H   | 16       | 4.49          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H   | 18       | 4.49          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H   | 19       | 4.49          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2 | 11       | 4.49          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3 | 11       | 4.49          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 20       | 4.49          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 15       | 4.49          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H   | 16       | 4.49          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 1        | 4.49          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 12       | 4.49          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 16       | 4.49          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3 | 1        | 4.49          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 8        | 4.49          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 8        | 4.49          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 6        | 4.49          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 9        | 4.49          |
| (1,1314) | 1:A:4:ASN:HD22 | 1:A:5:GLY:HA3  | 20       | 4.49          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H   | 11       | 4.49          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 9        | 4.49          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 6        | 4.48          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 6        | 4.48          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 8        | 4.48          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 8        | 4.48          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 8        | 4.48          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 8        | 4.48          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 8        | 4.48          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 8        | 4.48          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 19       | 4.48          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 2        | 4.48          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 15       | 4.48          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 7        | 4.48          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2 | 7        | 4.48          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 9        | 4.48          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2 | 9        | 4.48          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 16       | 4.48          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 16       | 4.48          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 18       | 4.48          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 18       | 4.48          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 14       | 4.48          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 14       | 4.48          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 3        | 4.48          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 5        | 4.48          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 8        | 4.48          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 8        | 4.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 8        | 4.48          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 1        | 4.48          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 11       | 4.48          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 8        | 4.48          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 14       | 4.48          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 16       | 4.48          |
| (1,4445) | 1:A:24:GLY:H    | 1:A:27:GLY:H   | 18       | 4.48          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 6        | 4.48          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 6        | 4.48          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 15       | 4.48          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 15       | 4.48          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 2        | 4.48          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 2        | 4.48          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 13       | 4.48          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 19       | 4.48          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 19       | 4.48          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 8        | 4.48          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 8        | 4.48          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 20       | 4.48          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 4        | 4.48          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 14       | 4.48          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 14       | 4.48          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 2        | 4.48          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 2        | 4.48          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 4        | 4.48          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 4        | 4.48          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 17       | 4.48          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 17       | 4.48          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 9        | 4.48          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 9        | 4.48          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 7        | 4.48          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 2        | 4.48          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 2        | 4.48          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 2        | 4.48          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 16       | 4.48          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 17       | 4.48          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 10       | 4.48          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 18       | 4.48          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 1        | 4.48          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 1        | 4.48          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 1        | 4.48          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 7        | 4.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 7        | 4.48          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 7        | 4.48          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 11       | 4.48          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 11       | 4.48          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 11       | 4.48          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 12       | 4.48          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 13       | 4.48          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 13       | 4.48          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 2        | 4.48          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 3        | 4.48          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 4        | 4.48          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 2        | 4.48          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 4        | 4.48          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB2 | 7        | 4.48          |
| (1,3049) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HB3 | 7        | 4.48          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 14       | 4.48          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 14       | 4.48          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 13       | 4.48          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 13       | 4.48          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2 | 2        | 4.48          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2 | 5        | 4.48          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2 | 10       | 4.48          |
| (1,2145) | 1:A:9:PRO:HA    | 1:A:13:GLY:H   | 15       | 4.48          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 2        | 4.48          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 3        | 4.48          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 10       | 4.48          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2 | 7        | 4.48          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3 | 7        | 4.48          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2 | 8        | 4.48          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3 | 8        | 4.48          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 2        | 4.48          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 10       | 4.48          |
| (1,1656) | 1:A:6:GLN:HB3   | 1:A:24:GLY:H   | 11       | 4.48          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD1 | 13       | 4.48          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD2 | 13       | 4.48          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD1 | 15       | 4.48          |
| (1,1495) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HD2 | 15       | 4.48          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 4        | 4.48          |
| (1,1314) | 1:A:4:ASN:HD22  | 1:A:5:GLY:HA3  | 1        | 4.48          |
| (1,1314) | 1:A:4:ASN:HD22  | 1:A:5:GLY:HA3  | 3        | 4.48          |
| (1,1314) | 1:A:4:ASN:HD22  | 1:A:5:GLY:HA3  | 4        | 4.48          |
| (1,1314) | 1:A:4:ASN:HD22  | 1:A:5:GLY:HA3  | 15       | 4.48          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 4        | 4.48          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 14       | 4.48          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3 | 4        | 4.47          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3 | 4        | 4.47          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 6        | 4.47          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 7        | 4.47          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 11       | 4.47          |
| (1,577)  | 1:A:1:SER:HB2  | 1:A:27:GLY:H   | 9        | 4.47          |
| (1,577)  | 1:A:1:SER:HB3  | 1:A:27:GLY:H   | 9        | 4.47          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 17       | 4.47          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 17       | 4.47          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 18       | 4.47          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 18       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 18       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 18       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 19       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 19       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 20       | 4.47          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 20       | 4.47          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 15       | 4.47          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1 | 19       | 4.47          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 19       | 4.47          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1 | 19       | 4.47          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA  | 14       | 4.47          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 20       | 4.47          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 8        | 4.47          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 8        | 4.47          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 20       | 4.47          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 20       | 4.47          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 20       | 4.47          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG2 | 19       | 4.47          |
| (1,4727) | 1:A:28:SER:H   | 1:A:31:LYS:HG3 | 19       | 4.47          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE2 | 18       | 4.47          |
| (1,4700) | 1:A:27:GLY:HA2 | 1:A:31:LYS:HE3 | 18       | 4.47          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 12       | 4.47          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 15       | 4.47          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 17       | 4.47          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 17       | 4.47          |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H   | 20       | 4.47          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2 | 19       | 4.47          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2 | 19       | 4.47          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3 | 19       | 4.47          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4441) | 1:A:23:TYR:HE2  | 1:A:35:HIS:HB3 | 19       | 4.47          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 2        | 4.47          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 2        | 4.47          |
| (1,4266) | 1:A:22:GLN:HG3  | 1:A:33:CYS:HA  | 1        | 4.47          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 10       | 4.47          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 20       | 4.47          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 20       | 4.47          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 8        | 4.47          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 6        | 4.47          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 4        | 4.47          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 10       | 4.47          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 4        | 4.47          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 18       | 4.47          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 19       | 4.47          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H   | 20       | 4.47          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 20       | 4.47          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 20       | 4.47          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 9        | 4.47          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 17       | 4.47          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 2        | 4.47          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 2        | 4.47          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 2        | 4.47          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 2        | 4.47          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 19       | 4.47          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 20       | 4.47          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 10       | 4.47          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 5        | 4.47          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 10       | 4.47          |
| (1,2111) | 1:A:8:GLY:HA3   | 1:A:21:SER:H   | 17       | 4.47          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 4        | 4.47          |
| (1,2042) | 1:A:8:GLY:H     | 1:A:20:CYS:H   | 5        | 4.47          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 12       | 4.47          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 12       | 4.47          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 3        | 4.47          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 5        | 4.47          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 6        | 4.47          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 14       | 4.47          |
| (1,1314) | 1:A:4:ASN:HD22  | 1:A:5:GLY:HA3  | 14       | 4.47          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H    | 4        | 4.47          |
| (1,1004) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HZ2 | 6        | 4.47          |
| (1,719)  | 1:A:2:GLY:HA3   | 1:A:12:GLY:H   | 14       | 4.46          |
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE1 | 1        | 4.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,645)  | 1:A:2:GLY:H     | 1:A:25:TYR:HE2 | 1        | 4.46          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1 | 6        | 4.46          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2 | 6        | 4.46          |
| (1,574)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HB3 | 12       | 4.46          |
| (1,574)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HB3 | 12       | 4.46          |
| (1,558)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HG  | 20       | 4.46          |
| (1,558)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HG  | 20       | 4.46          |
| (1,529)  | 1:A:1:SER:HA    | 1:A:26:CYS:H   | 8        | 4.46          |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 4        | 4.46          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 12       | 4.46          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 12       | 4.46          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 12       | 4.46          |
| (1,4896) | 1:A:31:LYS:HB3  | 1:A:33:CYS:HA  | 9        | 4.46          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 19       | 4.46          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 19       | 4.46          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1 | 10       | 4.46          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2 | 10       | 4.46          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 19       | 4.46          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 19       | 4.46          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 8        | 4.46          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 8        | 4.46          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2 | 17       | 4.46          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3 | 17       | 4.46          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 10       | 4.46          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 4        | 4.46          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 7        | 4.46          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 9        | 4.46          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 13       | 4.46          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 15       | 4.46          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 16       | 4.46          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 16       | 4.46          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 13       | 4.46          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 20       | 4.46          |
| (1,4077) | 1:A:21:SER:HG   | 1:A:28:SER:H   | 14       | 4.46          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 4        | 4.46          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 7        | 4.46          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 20       | 4.46          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 10       | 4.46          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 16       | 4.46          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 16       | 4.46          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 16       | 4.46          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 16       | 4.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 2        | 4.46          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 2        | 4.46          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 2        | 4.46          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 5        | 4.46          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 5        | 4.46          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 5        | 4.46          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 12       | 4.46          |
| (1,3694) | 1:A:18:LEU:HB2  | 1:A:29:GLY:H   | 16       | 4.46          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 6        | 4.46          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 10       | 4.46          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 7        | 4.46          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 6        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 1        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 1        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 2        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 2        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 3        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 3        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 4        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 4        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 5        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 5        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 6        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 6        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 7        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 7        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 8        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 8        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 9        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 9        | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 10       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 10       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 11       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 11       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 12       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 12       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 14       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 14       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 15       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 15       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2 | 16       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3 | 16       | 4.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA2  | 18       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA3  | 18       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA2  | 19       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA3  | 19       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA2  | 20       | 4.46          |
| (1,2833) | 1:A:11:TRP:HE1 | 1:A:12:GLY:HA3  | 20       | 4.46          |
| (1,2396) | 1:A:9:PRO:HG3  | 1:A:24:GLY:HA2  | 17       | 4.46          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 15       | 4.46          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 15       | 4.46          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 6        | 4.46          |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 12       | 4.46          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 14       | 4.46          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 14       | 4.46          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD11 | 1        | 4.46          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD12 | 1        | 4.46          |
| (1,1938) | 1:A:7:CYS:H    | 1:A:18:LEU:HD13 | 1        | 4.46          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 20       | 4.46          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 20       | 4.46          |
| (1,1656) | 1:A:6:GLN:HB3  | 1:A:24:GLY:H    | 9        | 4.46          |
| (1,1512) | 1:A:6:GLN:H    | 1:A:12:GLY:H    | 9        | 4.46          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 14       | 4.46          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 14       | 4.46          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 17       | 4.46          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 15       | 4.46          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 3        | 4.46          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 13       | 4.45          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22  | 17       | 4.45          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 14       | 4.45          |
| (1,561)  | 1:A:1:SER:HB2  | 1:A:20:CYS:H    | 9        | 4.45          |
| (1,561)  | 1:A:1:SER:HB3  | 1:A:20:CYS:H    | 9        | 4.45          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 10       | 4.45          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 10       | 4.45          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H    | 9        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 2        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 4        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 5        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 7        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 8        | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 11       | 4.45          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 13       | 4.45          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 14       | 4.45          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 14       | 4.45          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 3        | 4.45          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 6        | 4.45          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 8        | 4.45          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 14       | 4.45          |
| (1,4607) | 1:A:26:CYS:H    | 1:A:28:SER:H   | 17       | 4.45          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 11       | 4.45          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 11       | 4.45          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 20       | 4.45          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 17       | 4.45          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 17       | 4.45          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 12       | 4.45          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 7        | 4.45          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 17       | 4.45          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 9        | 4.45          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 16       | 4.45          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 18       | 4.45          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG  | 19       | 4.45          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2 | 19       | 4.45          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3 | 19       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 10       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 10       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 10       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 10       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 10       | 4.45          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 10       | 4.45          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 17       | 4.45          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 11       | 4.45          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 20       | 4.45          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 20       | 4.45          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 15       | 4.45          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 5        | 4.45          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 12       | 4.45          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2 | 10       | 4.45          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3 | 10       | 4.45          |
| (1,2370) | 1:A:9:PRO:HG3   | 1:A:12:GLY:HA2 | 17       | 4.45          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 2        | 4.45          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 5        | 4.45          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 10       | 4.45          |
| (1,2145) | 1:A:9:PRO:HA    | 1:A:13:GLY:H   | 11       | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 9        | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3  | 9        | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 11       | 4.45          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3  | 11       | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2  | 15       | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3  | 15       | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2  | 17       | 4.45          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3  | 17       | 4.45          |
| (1,1695) | 1:A:6:GLN:HG2  | 1:A:8:GLY:H    | 17       | 4.45          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3 | 20       | 4.45          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 6        | 4.45          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 6        | 4.45          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 15       | 4.45          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 15       | 4.45          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 7        | 4.45          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 7        | 4.45          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 12       | 4.45          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 13       | 4.44          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 13       | 4.44          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 10       | 4.44          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 10       | 4.44          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22 | 20       | 4.44          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 16       | 4.44          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 4        | 4.44          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA  | 20       | 4.44          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2 | 1        | 4.44          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3 | 1        | 4.44          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2 | 13       | 4.44          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3 | 13       | 4.44          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 3        | 4.44          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 2        | 4.44          |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H   | 12       | 4.44          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 13       | 4.44          |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 13       | 4.44          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1 | 4        | 4.44          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2 | 4        | 4.44          |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 15       | 4.44          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1 | 18       | 4.44          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2 | 18       | 4.44          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE1 | 17       | 4.44          |
| (1,4169) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HE2 | 17       | 4.44          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 16       | 4.44          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 16       | 4.44          |
| (1,4077) | 1:A:21:SER:HG  | 1:A:28:SER:H   | 12       | 4.44          |
| (1,4066) | 1:A:21:SER:HG  | 1:A:22:GLN:HG2 | 5        | 4.44          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 5        | 4.44          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 10       | 4.44          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 8        | 4.44          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 9        | 4.44          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 14       | 4.44          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 1        | 4.44          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 1        | 4.44          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 1        | 4.44          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 12       | 4.44          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 12       | 4.44          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 12       | 4.44          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 18       | 4.44          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 10       | 4.44          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 10       | 4.44          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 7        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 9        | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 20       | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 20       | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 20       | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 20       | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 20       | 4.44          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 20       | 4.44          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 2        | 4.44          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 2        | 4.44          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 4        | 4.44          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 4        | 4.44          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA2  | 17       | 4.44          |
| (1,2833) | 1:A:11:TRP:HE1  | 1:A:12:GLY:HA3  | 17       | 4.44          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1  | 4        | 4.44          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1  | 6        | 4.44          |
| (1,2001) | 1:A:7:CYS:HB2   | 1:A:23:TYR:H    | 12       | 4.44          |
| (1,2001) | 1:A:7:CYS:HB3   | 1:A:23:TYR:H    | 12       | 4.44          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA    | 17       | 4.44          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA    | 17       | 4.44          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2  | 11       | 4.44          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3  | 11       | 4.44          |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H    | 16       | 4.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 11       | 4.44          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3 | 15       | 4.44          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 13       | 4.44          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 17       | 4.44          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 3        | 4.44          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2 | 14       | 4.44          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1 | 7        | 4.43          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2 | 7        | 4.43          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 16       | 4.43          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 17       | 4.43          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 5        | 4.43          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 16       | 4.43          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 18       | 4.43          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 19       | 4.43          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 5        | 4.43          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2 | 5        | 4.43          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 18       | 4.43          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 18       | 4.43          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 2        | 4.43          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 7        | 4.43          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 20       | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 1        | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 1        | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 1        | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 1        | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 1        | 4.43          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 1        | 4.43          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 8        | 4.43          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H   | 18       | 4.43          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 20       | 4.43          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 20       | 4.43          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 20       | 4.43          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 6        | 4.43          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3 | 1        | 4.43          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3 | 7        | 4.43          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 5        | 4.43          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 15       | 4.43          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 15       | 4.43          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2 | 6        | 4.43          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2 | 6        | 4.43          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3 | 6        | 4.43          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3 | 6        | 4.43          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 14       | 4.43          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE2  | 19       | 4.43          |
| (1,4352) | 1:A:23:TYR:H    | 1:A:31:LYS:HE3  | 19       | 4.43          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 14       | 4.43          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 20       | 4.43          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 12       | 4.43          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 7        | 4.43          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 11       | 4.43          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 13       | 4.43          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 9        | 4.43          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 14       | 4.43          |
| (1,3887) | 1:A:19:CYS:HB3  | 1:A:21:SER:HG   | 7        | 4.43          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 10       | 4.43          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 10       | 4.43          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 10       | 4.43          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 17       | 4.43          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 17       | 4.43          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 17       | 4.43          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 2        | 4.43          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 19       | 4.43          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA   | 15       | 4.43          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA   | 15       | 4.43          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 18       | 4.43          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 19       | 4.43          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG   | 8        | 4.43          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2  | 13       | 4.43          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3  | 13       | 4.43          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 3        | 4.43          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 3        | 4.43          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1  | 3        | 4.43          |
| (1,2331) | 1:A:9:PRO:HG2   | 1:A:24:GLY:HA2  | 17       | 4.43          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2  | 1        | 4.43          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3  | 1        | 4.43          |
| (1,2001) | 1:A:7:CYS:HB2   | 1:A:23:TYR:H    | 8        | 4.43          |
| (1,2001) | 1:A:7:CYS:HB3   | 1:A:23:TYR:H    | 8        | 4.43          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2  | 16       | 4.43          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3  | 16       | 4.43          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2  | 18       | 4.43          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3  | 18       | 4.43          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2   | 1        | 4.43          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3   | 1        | 4.43          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2   | 13       | 4.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3  | 13       | 4.43          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2 | 11       | 4.43          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 5        | 4.43          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 5        | 4.43          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 11       | 4.43          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 11       | 4.43          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 2        | 4.43          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 10       | 4.43          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 1        | 4.43          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 20       | 4.43          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 5        | 4.43          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 5        | 4.43          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 11       | 4.42          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 11       | 4.42          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 1        | 4.42          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 15       | 4.42          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 2        | 4.42          |
| (1,558)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HG  | 7        | 4.42          |
| (1,558)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HG  | 7        | 4.42          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1 | 16       | 4.42          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1 | 16       | 4.42          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 1        | 4.42          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 15       | 4.42          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 17       | 4.42          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 10       | 4.42          |
| (1,4935) | 1:A:32:TYR:HE1 | 1:A:35:HIS:HE1 | 20       | 4.42          |
| (1,4935) | 1:A:32:TYR:HE2 | 1:A:35:HIS:HE1 | 20       | 4.42          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H   | 5        | 4.42          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H   | 5        | 4.42          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA  | 16       | 4.42          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA  | 19       | 4.42          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 3        | 4.42          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 3        | 4.42          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 10       | 4.42          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 5        | 4.42          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3 | 11       | 4.42          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 18       | 4.42          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 19       | 4.42          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 20       | 4.42          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2 | 1        | 4.42          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2 | 1        | 4.42          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2 | 3        | 4.42          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 3        | 4.42          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 3        | 4.42          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 3        | 4.42          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H    | 9        | 4.42          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3  | 16       | 4.42          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3  | 16       | 4.42          |
| (1,4428) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB2  | 1        | 4.42          |
| (1,4428) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB2  | 1        | 4.42          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 5        | 4.42          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 5        | 4.42          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1  | 13       | 4.42          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2  | 13       | 4.42          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H    | 10       | 4.42          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 7        | 4.42          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 13       | 4.42          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 13       | 4.42          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 13       | 4.42          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 8        | 4.42          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 8        | 4.42          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 3        | 4.42          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 5        | 4.42          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1  | 13       | 4.42          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2  | 13       | 4.42          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3  | 13       | 4.42          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 14       | 4.42          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 1        | 4.42          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 12       | 4.42          |
| (1,4025) | 1:A:21:SER:H    | 1:A:28:SER:H    | 15       | 4.42          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3  | 4        | 4.42          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 19       | 4.42          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 19       | 4.42          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 11       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 12       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 12       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 12       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 13       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 13       | 4.42          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 13       | 4.42          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA   | 6        | 4.42          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2  | 15       | 4.42          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3  | 15       | 4.42          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1  | 17       | 4.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2145) | 1:A:9:PRO:HA   | 1:A:13:GLY:H    | 1        | 4.42          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 11       | 4.42          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 11       | 4.42          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 6        | 4.42          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 6        | 4.42          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 19       | 4.42          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 19       | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 1        | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 1        | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 8        | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 8        | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 9        | 4.42          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 9        | 4.42          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 18       | 4.42          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 1        | 4.42          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 5        | 4.42          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 14       | 4.42          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 8        | 4.42          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 6        | 4.42          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 4        | 4.42          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 6        | 4.42          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 10       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 1        | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 12       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 12       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 12       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 12       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 12       | 4.42          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 12       | 4.42          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1  | 7        | 4.41          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2  | 7        | 4.41          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1  | 7        | 4.41          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2  | 7        | 4.41          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 3        | 4.41          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 3        | 4.41          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 5        | 4.41          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 11       | 4.41          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 20       | 4.41          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H    | 8        | 4.41          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22  | 6        | 4.41          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD11 | 17       | 4.41          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD12 | 17       | 4.41          |
| (1,628)  | 1:A:2:GLY:H    | 1:A:18:LEU:HD13 | 17       | 4.41          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 6        | 4.41          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 6        | 4.41          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE   | 8        | 4.41          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE   | 8        | 4.41          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H    | 12       | 4.41          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H    | 14       | 4.41          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 8        | 4.41          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 8        | 4.41          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H    | 8        | 4.41          |
| (1,4896) | 1:A:31:LYS:HB3 | 1:A:33:CYS:HA   | 18       | 4.41          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 5        | 4.41          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 5        | 4.41          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 13       | 4.41          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 15       | 4.41          |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H    | 16       | 4.41          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 4        | 4.41          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 4        | 4.41          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 4        | 4.41          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 4        | 4.41          |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H    | 7        | 4.41          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 1        | 4.41          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 1        | 4.41          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2  | 2        | 4.41          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3  | 2        | 4.41          |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H    | 7        | 4.41          |
| (1,4249) | 1:A:22:GLN:HG3 | 1:A:25:TYR:H    | 4        | 4.41          |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD1  | 4        | 4.41          |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD2  | 4        | 4.41          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE1  | 5        | 4.41          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE2  | 5        | 4.41          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE1  | 17       | 4.41          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE2  | 17       | 4.41          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB1  | 4        | 4.41          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB2  | 4        | 4.41          |
| (1,4043) | 1:A:21:SER:H   | 1:A:34:ALA:HB3  | 4        | 4.41          |
| (1,3848) | 1:A:19:CYS:H   | 1:A:34:ALA:H    | 8        | 4.41          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 7        | 4.41          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 7        | 4.41          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 7        | 4.41          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 9        | 4.41          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 9        | 4.41          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 9        | 4.41          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 7        | 4.41          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 7        | 4.41          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 7        | 4.41          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 9        | 4.41          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 9        | 4.41          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 9        | 4.41          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 13       | 4.41          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 13       | 4.41          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 13       | 4.41          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 12       | 4.41          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 12       | 4.41          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 12       | 4.41          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 5        | 4.41          |
| (1,3341) | 1:A:15:ARG:HB3  | 1:A:26:CYS:HA   | 13       | 4.41          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H    | 14       | 4.41          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG   | 15       | 4.41          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2  | 15       | 4.41          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3  | 15       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 16       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 19       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 19       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 19       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 19       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 19       | 4.41          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 19       | 4.41          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2  | 14       | 4.41          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3  | 14       | 4.41          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD2  | 19       | 4.41          |
| (1,2988) | 1:A:12:GLY:H    | 1:A:15:ARG:HD3  | 19       | 4.41          |
| (1,2145) | 1:A:9:PRO:HA    | 1:A:13:GLY:H    | 13       | 4.41          |
| (1,2001) | 1:A:7:CYS:HB2   | 1:A:23:TYR:H    | 18       | 4.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 18       | 4.41          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H   | 19       | 4.41          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 19       | 4.41          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H   | 20       | 4.41          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H   | 20       | 4.41          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 7        | 4.41          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H   | 19       | 4.41          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 4        | 4.41          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 4        | 4.41          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 13       | 4.41          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 15       | 4.41          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 17       | 4.41          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2 | 5        | 4.41          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 12       | 4.4           |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 3        | 4.4           |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 7        | 4.4           |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 8        | 4.4           |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 12       | 4.4           |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 11       | 4.4           |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 19       | 4.4           |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H   | 20       | 4.4           |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H   | 20       | 4.4           |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H   | 17       | 4.4           |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 15       | 4.4           |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 2        | 4.4           |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 2        | 4.4           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 8        | 4.4           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 8        | 4.4           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 8        | 4.4           |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 17       | 4.4           |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3 | 9        | 4.4           |
| (1,4607) | 1:A:26:CYS:H   | 1:A:28:SER:H   | 10       | 4.4           |
| (1,4466) | 1:A:24:GLY:HA2 | 1:A:27:GLY:H   | 8        | 4.4           |
| (1,4445) | 1:A:24:GLY:H   | 1:A:27:GLY:H   | 12       | 4.4           |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1 | 11       | 4.4           |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2 | 11       | 4.4           |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1 | 15       | 4.4           |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2 | 15       | 4.4           |
| (1,4343) | 1:A:23:TYR:H   | 1:A:27:GLY:H   | 9        | 4.4           |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 7        | 4.4           |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H   | 5        | 4.4           |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE1 | 13       | 4.4           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2  | 13       | 4.4           |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2  | 13       | 4.4           |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3  | 5        | 4.4           |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3  | 13       | 4.4           |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 6        | 4.4           |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1  | 15       | 4.4           |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2  | 15       | 4.4           |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3  | 15       | 4.4           |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2  | 8        | 4.4           |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 1        | 4.4           |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 12       | 4.4           |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 16       | 4.4           |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA   | 20       | 4.4           |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 7        | 4.4           |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 9        | 4.4           |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 18       | 4.4           |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 19       | 4.4           |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H    | 20       | 4.4           |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2  | 10       | 4.4           |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2  | 12       | 4.4           |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 2        | 4.4           |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H    | 4        | 4.4           |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 18       | 4.4           |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 18       | 4.4           |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 18       | 4.4           |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 19       | 4.4           |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 19       | 4.4           |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 19       | 4.4           |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 7        | 4.4           |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 7        | 4.4           |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 7        | 4.4           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD1  | 14       | 4.4           |
| (1,3753) | 1:A:18:LEU:HG   | 1:A:32:TYR:HD2  | 14       | 4.4           |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 11       | 4.4           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 20       | 4.4           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 20       | 4.4           |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 6        | 4.4           |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 11       | 4.4           |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE   | 17       | 4.4           |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3  | 8        | 4.4           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 18       | 4.4           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 18       | 4.4           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 18       | 4.4           |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 18       | 4.4           |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 18       | 4.4           |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 18       | 4.4           |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 5        | 4.4           |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 5        | 4.4           |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 8        | 4.4           |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 8        | 4.4           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD1  | 17       | 4.4           |
| (1,2867) | 1:A:11:TRP:HE1 | 1:A:25:TYR:HD2  | 17       | 4.4           |
| (1,2059) | 1:A:8:GLY:H    | 1:A:26:CYS:HA   | 17       | 4.4           |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1  | 3        | 4.4           |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2  | 3        | 4.4           |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1  | 3        | 4.4           |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2  | 3        | 4.4           |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 9        | 4.4           |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 9        | 4.4           |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 17       | 4.4           |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 20       | 4.4           |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 20       | 4.4           |
| (1,1700) | 1:A:6:GLN:HG2  | 1:A:11:TRP:H    | 13       | 4.4           |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 9        | 4.4           |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 17       | 4.4           |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 1        | 4.4           |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 11       | 4.4           |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 16       | 4.4           |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 4        | 4.4           |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 2        | 4.4           |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 5        | 4.39          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 5        | 4.39          |
| (1,901)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HZ2  | 9        | 4.39          |
| (1,901)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HZ2  | 9        | 4.39          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 19       | 4.39          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22  | 13       | 4.39          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 15       | 4.39          |
| (1,548)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE1  | 12       | 4.39          |
| (1,548)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE1  | 12       | 4.39          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2  | 14       | 4.39          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3  | 14       | 4.39          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 10       | 4.39          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 10       | 4.39          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2  | 17       | 4.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA  | 7        | 4.39          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 16       | 4.39          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 19       | 4.39          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 17       | 4.39          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 14       | 4.39          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 14       | 4.39          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 3        | 4.39          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 3        | 4.39          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 17       | 4.39          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB1 | 2        | 4.39          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB2 | 2        | 4.39          |
| (1,4043) | 1:A:21:SER:H    | 1:A:34:ALA:HB3 | 2        | 4.39          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 10       | 4.39          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 9        | 4.39          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 18       | 4.39          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 19       | 4.39          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 8        | 4.39          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 16       | 4.39          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 14       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 13       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 13       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 13       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 20       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 20       | 4.39          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 20       | 4.39          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 5        | 4.39          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 5        | 4.39          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 5        | 4.39          |
| (1,3741) | 1:A:18:LEU:HG   | 1:A:26:CYS:H   | 14       | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 1        | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 1        | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 9        | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 9        | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 15       | 4.39          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 15       | 4.39          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 9        | 4.39          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 9        | 4.39          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 5        | 4.39          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 16       | 4.39          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 12       | 4.39          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2 | 12       | 4.39          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3 | 12       | 4.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 9        | 4.39          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 20       | 4.39          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 7        | 4.39          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 7        | 4.39          |
| (1,2001) | 1:A:7:CYS:HB2  | 1:A:23:TYR:H    | 16       | 4.39          |
| (1,2001) | 1:A:7:CYS:HB3  | 1:A:23:TYR:H    | 16       | 4.39          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 12       | 4.39          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 12       | 4.39          |
| (1,1588) | 1:A:6:GLN:HB2  | 1:A:10:GLY:HA3  | 13       | 4.39          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 12       | 4.39          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 14       | 4.39          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 19       | 4.39          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 5        | 4.39          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 14       | 4.39          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 7        | 4.38          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 10       | 4.38          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 1        | 4.38          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 1        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 6        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 6        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 6        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 6        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 6        | 4.38          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 6        | 4.38          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 10       | 4.38          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 10       | 4.38          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 10       | 4.38          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 10       | 4.38          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 10       | 4.38          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 10       | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 9        | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 9        | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 9        | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 9        | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 9        | 4.38          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 9        | 4.38          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 3        | 4.38          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 5        | 4.38          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 6        | 4.38          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H    | 11       | 4.38          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 4        | 4.38          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 8        | 4.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 12       | 4.38          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 14       | 4.38          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 8        | 4.38          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 8        | 4.38          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 10       | 4.38          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 10       | 4.38          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 18       | 4.38          |
| (1,4466) | 1:A:24:GLY:HA2  | 1:A:27:GLY:H   | 20       | 4.38          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 2        | 4.38          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 2        | 4.38          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 2        | 4.38          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 2        | 4.38          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 11       | 4.38          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 11       | 4.38          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 11       | 4.38          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 11       | 4.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 17       | 4.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 17       | 4.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 17       | 4.38          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 3        | 4.38          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 3        | 4.38          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H   | 20       | 4.38          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 6        | 4.38          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 1        | 4.38          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 1        | 4.38          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 12       | 4.38          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 12       | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 1        | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 1        | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 6        | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 6        | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 11       | 4.38          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 11       | 4.38          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 20       | 4.38          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 13       | 4.38          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 13       | 4.38          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 4        | 4.38          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 4        | 4.38          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 2        | 4.38          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 8        | 4.38          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 11       | 4.38          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 12       | 4.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 8        | 4.38          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 12       | 4.38          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 14       | 4.38          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 15       | 4.38          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 7        | 4.38          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 8        | 4.38          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 16       | 4.38          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 18       | 4.38          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 19       | 4.38          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 20       | 4.38          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 6        | 4.38          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 6        | 4.38          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 6        | 4.38          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 13       | 4.38          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 13       | 4.38          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 13       | 4.38          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 13       | 4.38          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 13       | 4.38          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 13       | 4.38          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 16       | 4.38          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 16       | 4.38          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 16       | 4.38          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 2        | 4.38          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 2        | 4.38          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 2        | 4.38          |
| (1,3723) | 1:A:18:LEU:HB3  | 1:A:33:CYS:H   | 14       | 4.38          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 8        | 4.38          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 8        | 4.38          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 12       | 4.38          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 12       | 4.38          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 15       | 4.38          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 15       | 4.38          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3 | 12       | 4.38          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3 | 14       | 4.38          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 6        | 4.38          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 9        | 4.38          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 7        | 4.38          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 19       | 4.38          |
| (1,3145) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HB3 | 20       | 4.38          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2 | 6        | 4.38          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB3 | 6        | 4.38          |
| (1,2998) | 1:A:12:GLY:H    | 1:A:20:CYS:HB2 | 7        | 4.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3 | 7        | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2 | 18       | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3 | 18       | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2 | 19       | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3 | 19       | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2 | 20       | 4.38          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3 | 20       | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 2        | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 3        | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 4        | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 5        | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 6        | 4.38          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2 | 10       | 4.38          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1 | 14       | 4.38          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1 | 13       | 4.38          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2 | 13       | 4.38          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 15       | 4.38          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 14       | 4.38          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2 | 18       | 4.38          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 6        | 4.38          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 18       | 4.38          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 19       | 4.38          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 20       | 4.38          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 17       | 4.38          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 11       | 4.37          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 11       | 4.37          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 9        | 4.37          |
| (1,719)  | 1:A:2:GLY:HA3  | 1:A:12:GLY:H   | 13       | 4.37          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 3        | 4.37          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 13       | 4.37          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 13       | 4.37          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 13       | 4.37          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 13       | 4.37          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA  | 1        | 4.37          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA  | 9        | 4.37          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA  | 11       | 4.37          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA  | 17       | 4.37          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 18       | 4.37          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 18       | 4.37          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 1        | 4.37          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 2        | 4.37          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H   | 4        | 4.37          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 13       | 4.37          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 2        | 4.37          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 17       | 4.37          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 9        | 4.37          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 9        | 4.37          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 20       | 4.37          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 20       | 4.37          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 12       | 4.37          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 19       | 4.37          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 13       | 4.37          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 13       | 4.37          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE1 | 20       | 4.37          |
| (1,4169) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HE2 | 20       | 4.37          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 4        | 4.37          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 4        | 4.37          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 12       | 4.37          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 1        | 4.37          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 15       | 4.37          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 17       | 4.37          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 18       | 4.37          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 1        | 4.37          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 11       | 4.37          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 13       | 4.37          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 1        | 4.37          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 11       | 4.37          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 4        | 4.37          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 4        | 4.37          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 4        | 4.37          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 16       | 4.37          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 16       | 4.37          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 16       | 4.37          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 16       | 4.37          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 16       | 4.37          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 16       | 4.37          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 6        | 4.37          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 6        | 4.37          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 6        | 4.37          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 7        | 4.37          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA  | 13       | 4.37          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA  | 13       | 4.37          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 20       | 4.37          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 9        | 4.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3  | 9        | 4.37          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3  | 18       | 4.37          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB2  | 16       | 4.37          |
| (1,3049) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HB3  | 16       | 4.37          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 16       | 4.37          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 16       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 7        | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 8        | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 9        | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 12       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 16       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 17       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 18       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 19       | 4.37          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 20       | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 7        | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 8        | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 12       | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 13       | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 18       | 4.37          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 19       | 4.37          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD1  | 17       | 4.37          |
| (1,2122) | 1:A:8:GLY:HA3  | 1:A:25:TYR:HD2  | 17       | 4.37          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 16       | 4.37          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 16       | 4.37          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 16       | 4.37          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 16       | 4.37          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 15       | 4.37          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 15       | 4.37          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 16       | 4.37          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 16       | 4.37          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 8        | 4.37          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 1        | 4.37          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 11       | 4.37          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 13       | 4.37          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 10       | 4.37          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 8        | 4.37          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 11       | 4.37          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 11       | 4.37          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 11       | 4.37          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 11       | 4.37          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 11       | 4.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 11       | 4.37          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 1        | 4.36          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 1        | 4.36          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 15       | 4.36          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 15       | 4.36          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 18       | 4.36          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 1        | 4.36          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3   | 3        | 4.36          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3   | 3        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 2        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 2        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 2        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 2        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 2        | 4.36          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 2        | 4.36          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 15       | 4.36          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H    | 8        | 4.36          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 11       | 4.36          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 11       | 4.36          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 8        | 4.36          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 8        | 4.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1  | 15       | 4.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2  | 15       | 4.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3  | 15       | 4.36          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 4        | 4.36          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 4        | 4.36          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 8        | 4.36          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 12       | 4.36          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 13       | 4.36          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 14       | 4.36          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 15       | 4.36          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H    | 12       | 4.36          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H    | 15       | 4.36          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 3        | 4.36          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 6        | 4.36          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2  | 7        | 4.36          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2  | 7        | 4.36          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 14       | 4.36          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 14       | 4.36          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 14       | 4.36          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 14       | 4.36          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 5        | 4.36          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 5        | 4.36          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 8        | 4.36          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 14       | 4.36          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 19       | 4.36          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 15       | 4.36          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 15       | 4.36          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 3        | 4.36          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 19       | 4.36          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 19       | 4.36          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 6        | 4.36          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 4        | 4.36          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 3        | 4.36          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 13       | 4.36          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 13       | 4.36          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 2        | 4.36          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 5        | 4.36          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 10       | 4.36          |
| (1,3945) | 1:A:20:CYS:H    | 1:A:34:ALA:H   | 16       | 4.36          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 3        | 4.36          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 5        | 4.36          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 6        | 4.36          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 10       | 4.36          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 8        | 4.36          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 8        | 4.36          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 8        | 4.36          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 9        | 4.36          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 9        | 4.36          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 9        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 1        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 1        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 1        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 1        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 1        | 4.36          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 1        | 4.36          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 19       | 4.36          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 19       | 4.36          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 19       | 4.36          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 8        | 4.36          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 8        | 4.36          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 16       | 4.36          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 16       | 4.36          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 6        | 4.36          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA3  | 6        | 4.36          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 17       | 4.36          |
| (1,3374) | 1:A:15:ARG:HG2 | 1:A:26:CYS:H    | 11       | 4.36          |
| (1,3374) | 1:A:15:ARG:HG3 | 1:A:26:CYS:H    | 11       | 4.36          |
| (1,3197) | 1:A:14:CYS:HB2 | 1:A:21:SER:HB3  | 8        | 4.36          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 9        | 4.36          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 9        | 4.36          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 1        | 4.36          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 11       | 4.36          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 14       | 4.36          |
| (1,2365) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HE1  | 16       | 4.36          |
| (1,2044) | 1:A:8:GLY:H    | 1:A:21:SER:H    | 17       | 4.36          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 9        | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 4        | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 4        | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 8        | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 8        | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 20       | 4.36          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 20       | 4.36          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2  | 14       | 4.36          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3  | 14       | 4.36          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 13       | 4.36          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 17       | 4.36          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 14       | 4.36          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 1        | 4.36          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 7        | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 15       | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 15       | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 15       | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 15       | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 15       | 4.36          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 15       | 4.36          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 20       | 4.35          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 20       | 4.35          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 15       | 4.35          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 1        | 4.35          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 1        | 4.35          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 8        | 4.35          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 12       | 4.35          |
| (1,599)  | 1:A:2:GLY:H    | 1:A:4:ASN:HD22  | 9        | 4.35          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1  | 8        | 4.35          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2  | 8        | 4.35          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1  | 8        | 4.35          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2  | 8        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 4        | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 12       | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 12       | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 12       | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 12       | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 12       | 4.35          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 12       | 4.35          |
| (1,4931) | 1:A:32:TYR:HE1  | 1:A:34:ALA:H    | 10       | 4.35          |
| (1,4931) | 1:A:32:TYR:HE2  | 1:A:34:ALA:H    | 10       | 4.35          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB2  | 18       | 4.35          |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB3  | 18       | 4.35          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2  | 14       | 4.35          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3  | 14       | 4.35          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB1  | 13       | 4.35          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB2  | 13       | 4.35          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB3  | 13       | 4.35          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H    | 7        | 4.35          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H    | 7        | 4.35          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2  | 20       | 4.35          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3  | 20       | 4.35          |
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA   | 2        | 4.35          |
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA   | 4        | 4.35          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H    | 8        | 4.35          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H    | 9        | 4.35          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H    | 14       | 4.35          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3  | 5        | 4.35          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1  | 8        | 4.35          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2  | 8        | 4.35          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1  | 9        | 4.35          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2  | 9        | 4.35          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB2  | 16       | 4.35          |
| (1,4275) | 1:A:22:GLN:HE21 | 1:A:25:TYR:HB3  | 16       | 4.35          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H    | 20       | 4.35          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3  | 20       | 4.35          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2  | 12       | 4.35          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 6        | 4.35          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 14       | 4.35          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 6        | 4.35          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 13       | 4.35          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 15       | 4.35          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 9        | 4.35          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 2        | 4.35          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 4        | 4.35          |
| (1,3973) | 1:A:20:CYS:HB2  | 1:A:32:TYR:HA  | 15       | 4.35          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 3        | 4.35          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 4        | 4.35          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 6        | 4.35          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 2        | 4.35          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 4        | 4.35          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 7        | 4.35          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 3        | 4.35          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 14       | 4.35          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 8        | 4.35          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 8        | 4.35          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 8        | 4.35          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 11       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 17       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 17       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 17       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 17       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 17       | 4.35          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 17       | 4.35          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 17       | 4.35          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 17       | 4.35          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 17       | 4.35          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 5        | 4.35          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 5        | 4.35          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 5        | 4.35          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 11       | 4.35          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 11       | 4.35          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 17       | 4.35          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 18       | 4.35          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG   | 19       | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD11 | 7        | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD12 | 7        | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 7        | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 7        | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 7        | 4.35          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 7        | 4.35          |
| (1,2776) | 1:A:11:TRP:HE3 | 1:A:12:GLY:HA2  | 15       | 4.35          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1  | 6        | 4.35          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2  | 6        | 4.35          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1  | 6        | 4.35          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2  | 6        | 4.35          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 13       | 4.35          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 13       | 4.35          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2  | 18       | 4.35          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3  | 18       | 4.35          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 16       | 4.35          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 7        | 4.35          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 7        | 4.35          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 8        | 4.35          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 15       | 4.35          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD2  | 1        | 4.35          |
| (1,1514) | 1:A:6:GLN:H    | 1:A:15:ARG:HD3  | 1        | 4.35          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 1        | 4.35          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 2        | 4.35          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 2        | 4.35          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 12       | 4.35          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 2        | 4.34          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 2        | 4.34          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 14       | 4.34          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 13       | 4.34          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 13       | 4.34          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 16       | 4.34          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 6        | 4.34          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 2        | 4.34          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H    | 10       | 4.34          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 16       | 4.34          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 16       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1  | 10       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2  | 10       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1  | 16       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2  | 16       | 4.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 18       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 18       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 19       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 19       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 20       | 4.34          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 20       | 4.34          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 3        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 7        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 7        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 7        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 7        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 8        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 8        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 8        | 4.34          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 8        | 4.34          |
| (1,4460) | 1:A:24:GLY:H    | 1:A:35:HIS:HB2 | 1        | 4.34          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 1        | 4.34          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 1        | 4.34          |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 1        | 4.34          |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 1        | 4.34          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 19       | 4.34          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 19       | 4.34          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 19       | 4.34          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 19       | 4.34          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 3        | 4.34          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 3        | 4.34          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 17       | 4.34          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 17       | 4.34          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 16       | 4.34          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 18       | 4.34          |
| (1,4343) | 1:A:23:TYR:H    | 1:A:27:GLY:H   | 20       | 4.34          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 3        | 4.34          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 3        | 4.34          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 20       | 4.34          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 17       | 4.34          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 4        | 4.34          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 20       | 4.34          |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 9        | 4.34          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 11       | 4.34          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 12       | 4.34          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD2 | 8        | 4.34          |
| (1,4037) | 1:A:21:SER:H    | 1:A:31:LYS:HD3 | 8        | 4.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 1        | 4.34          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 1        | 4.34          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 10       | 4.34          |
| (1,3951) | 1:A:20:CYS:HB2  | 1:A:22:GLN:H   | 17       | 4.34          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 7        | 4.34          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 9        | 4.34          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 13       | 4.34          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2 | 15       | 4.34          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 9        | 4.34          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 16       | 4.34          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 18       | 4.34          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 19       | 4.34          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 1        | 4.34          |
| (1,3848) | 1:A:19:CYS:H    | 1:A:34:ALA:H   | 12       | 4.34          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 12       | 4.34          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 12       | 4.34          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 12       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 15       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 19       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 19       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 19       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 19       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 19       | 4.34          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 19       | 4.34          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 8        | 4.34          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 8        | 4.34          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 8        | 4.34          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 13       | 4.34          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 13       | 4.34          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3 | 9        | 4.34          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 7        | 4.34          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 3        | 4.34          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 3        | 4.34          |
| (1,3149) | 1:A:13:GLY:HA3  | 1:A:18:LEU:HB3 | 17       | 4.34          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 15       | 4.34          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 15       | 4.34          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 15       | 4.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2 | 13       | 4.34          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3 | 13       | 4.34          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3 | 2        | 4.34          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3 | 10       | 4.34          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG2  | 17       | 4.34          |
| (1,1921) | 1:A:7:CYS:H    | 1:A:9:PRO:HG3  | 17       | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2 | 7        | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3 | 7        | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2 | 16       | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3 | 16       | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA2 | 19       | 4.34          |
| (1,1831) | 1:A:6:GLN:HE21 | 1:A:24:GLY:HA3 | 19       | 4.34          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 12       | 4.34          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 17       | 4.34          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 17       | 4.34          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 5        | 4.34          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 6        | 4.34          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 10       | 4.34          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 9        | 4.34          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3  | 16       | 4.34          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 9        | 4.33          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 9        | 4.33          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3 | 6        | 4.33          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3 | 6        | 4.33          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 11       | 4.33          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE1 | 9        | 4.33          |
| (1,576)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HE2 | 9        | 4.33          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE1 | 9        | 4.33          |
| (1,576)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HE2 | 9        | 4.33          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 2        | 4.33          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 2        | 4.33          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 17       | 4.33          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 17       | 4.33          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 17       | 4.33          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 17       | 4.33          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 5        | 4.33          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 5        | 4.33          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 18       | 4.33          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 18       | 4.33          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 5        | 4.33          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 5        | 4.33          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 9        | 4.33          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H    | 9        | 4.33          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H    | 7        | 4.33          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H    | 7        | 4.33          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 9        | 4.33          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 9        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1  | 2        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2  | 2        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3  | 2        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1  | 4        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2  | 4        | 4.33          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3  | 4        | 4.33          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2  | 12       | 4.33          |
| (1,4703) | 1:A:27:GLY:HA2 | 1:A:33:CYS:H    | 7        | 4.33          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 17       | 4.33          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 9        | 4.33          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 9        | 4.33          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 9        | 4.33          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 9        | 4.33          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 15       | 4.33          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 15       | 4.33          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 15       | 4.33          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 15       | 4.33          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3  | 10       | 4.33          |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3  | 10       | 4.33          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 6        | 4.33          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 6        | 4.33          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 14       | 4.33          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 14       | 4.33          |
| (1,4127) | 1:A:22:GLN:H   | 1:A:33:CYS:H    | 12       | 4.33          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE1  | 18       | 4.33          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE2  | 18       | 4.33          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE1  | 20       | 4.33          |
| (1,4108) | 1:A:22:GLN:H   | 1:A:25:TYR:HE2  | 20       | 4.33          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2  | 2        | 4.33          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3  | 2        | 4.33          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H    | 14       | 4.33          |
| (1,4038) | 1:A:21:SER:H   | 1:A:32:TYR:H    | 4        | 4.33          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE21 | 15       | 4.33          |
| (1,4015) | 1:A:21:SER:H   | 1:A:22:GLN:HE22 | 15       | 4.33          |
| (1,4014) | 1:A:21:SER:H   | 1:A:22:GLN:HG3  | 6        | 4.33          |
| (1,3868) | 1:A:19:CYS:HB2 | 1:A:22:GLN:H    | 2        | 4.33          |
| (1,3868) | 1:A:19:CYS:HB2 | 1:A:22:GLN:H    | 5        | 4.33          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 20       | 4.33          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 3        | 4.33          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 3        | 4.33          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 3        | 4.33          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 3        | 4.33          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 3        | 4.33          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 3        | 4.33          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3 | 9        | 4.33          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 1        | 4.33          |
| (1,2365) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HE1 | 11       | 4.33          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1 | 14       | 4.33          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2 | 14       | 4.33          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1 | 14       | 4.33          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2 | 14       | 4.33          |
| (1,1945) | 1:A:7:CYS:H     | 1:A:21:SER:HB3 | 5        | 4.33          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 5        | 4.33          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2 | 2        | 4.33          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3 | 2        | 4.33          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB2 | 5        | 4.33          |
| (1,1832) | 1:A:6:GLN:HE21  | 1:A:25:TYR:HB3 | 5        | 4.33          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 9        | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 3        | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3  | 3        | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 18       | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3  | 18       | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA2  | 19       | 4.33          |
| (1,1738) | 1:A:6:GLN:HG3   | 1:A:8:GLY:HA3  | 19       | 4.33          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 17       | 4.33          |
| (1,1511) | 1:A:6:GLN:H     | 1:A:11:TRP:HH2 | 15       | 4.33          |
| (1,1440) | 1:A:5:GLY:H     | 1:A:26:CYS:HA  | 15       | 4.33          |
| (1,1132) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HH2 | 7        | 4.33          |
| (1,1132) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HH2 | 9        | 4.33          |
| (1,1114) | 1:A:4:ASN:HA    | 1:A:6:GLN:HB3  | 13       | 4.33          |
| (1,1114) | 1:A:4:ASN:HA    | 1:A:6:GLN:HB3  | 15       | 4.33          |
| (1,897)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HB3 | 19       | 4.32          |
| (1,897)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HB3 | 19       | 4.32          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB2  | 9        | 4.32          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB3  | 9        | 4.32          |
| (1,719)  | 1:A:2:GLY:HA3   | 1:A:12:GLY:H   | 11       | 4.32          |
| (1,607)  | 1:A:2:GLY:H     | 1:A:10:GLY:HA3 | 15       | 4.32          |
| (1,529)  | 1:A:1:SER:HA    | 1:A:26:CYS:H   | 17       | 4.32          |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 10       | 4.32          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4931) | 1:A:32:TYR:HE1  | 1:A:34:ALA:H    | 3        | 4.32          |
| (1,4931) | 1:A:32:TYR:HE2  | 1:A:34:ALA:H    | 3        | 4.32          |
| (1,4931) | 1:A:32:TYR:HE1  | 1:A:34:ALA:H    | 6        | 4.32          |
| (1,4931) | 1:A:32:TYR:HE2  | 1:A:34:ALA:H    | 6        | 4.32          |
| (1,4928) | 1:A:32:TYR:HD1  | 1:A:34:ALA:HA   | 7        | 4.32          |
| (1,4928) | 1:A:32:TYR:HD2  | 1:A:34:ALA:HA   | 7        | 4.32          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2  | 7        | 4.32          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3  | 7        | 4.32          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H    | 16       | 4.32          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H    | 1        | 4.32          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1  | 3        | 4.32          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2  | 3        | 4.32          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG2  | 20       | 4.32          |
| (1,4727) | 1:A:28:SER:H    | 1:A:31:LYS:HG3  | 20       | 4.32          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 3        | 4.32          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 6        | 4.32          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H    | 16       | 4.32          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2  | 1        | 4.32          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3  | 19       | 4.32          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3  | 20       | 4.32          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2  | 1        | 4.32          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 1        | 4.32          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 1        | 4.32          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 1        | 4.32          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 1        | 4.32          |
| (1,4268) | 1:A:22:GLN:HG3  | 1:A:34:ALA:H    | 1        | 4.32          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3  | 1        | 4.32          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 5        | 4.32          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 2        | 4.32          |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H    | 2        | 4.32          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1  | 2        | 4.32          |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2  | 2        | 4.32          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE21 | 2        | 4.32          |
| (1,4015) | 1:A:21:SER:H    | 1:A:22:GLN:HE22 | 2        | 4.32          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2  | 1        | 4.32          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2  | 11       | 4.32          |
| (1,3928) | 1:A:20:CYS:H    | 1:A:27:GLY:HA2  | 17       | 4.32          |
| (1,3908) | 1:A:19:CYS:HB3  | 1:A:35:HIS:HE1  | 5        | 4.32          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 3        | 4.32          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 4        | 4.32          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 6        | 4.32          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 13       | 4.32          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 15       | 4.32          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 17       | 4.32          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 10       | 4.32          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 2        | 4.32          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 2        | 4.32          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 2        | 4.32          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1  | 18       | 4.32          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 18       | 4.32          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 18       | 4.32          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 18       | 4.32          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 18       | 4.32          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 18       | 4.32          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2  | 20       | 4.32          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2  | 20       | 4.32          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2  | 20       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 16       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 16       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 16       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 18       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 18       | 4.32          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 18       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 16       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 16       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 18       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 18       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 19       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 19       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 20       | 4.32          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 20       | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 7        | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 7        | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 18       | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 18       | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 19       | 4.32          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 19       | 4.32          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 18       | 4.32          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3  | 18       | 4.32          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 19       | 4.32          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3  | 19       | 4.32          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 20       | 4.32          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 15       | 4.32          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 15       | 4.32          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 15       | 4.32          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 15       | 4.32          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 15       | 4.32          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 15       | 4.32          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 12       | 4.32          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 9        | 4.32          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 9        | 4.32          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 9        | 4.32          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 9        | 4.32          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB2  | 10       | 4.32          |
| (1,1832) | 1:A:6:GLN:HE21 | 1:A:25:TYR:HB3  | 10       | 4.32          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 14       | 4.32          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 14       | 4.32          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 3        | 4.32          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 18       | 4.32          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 19       | 4.32          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 12       | 4.32          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3  | 13       | 4.32          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 10       | 4.32          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 13       | 4.32          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 10       | 4.32          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 18       | 4.31          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 18       | 4.31          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 17       | 4.31          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 17       | 4.31          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 16       | 4.31          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 11       | 4.31          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 11       | 4.31          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 11       | 4.31          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 11       | 4.31          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 11       | 4.31          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H    | 1        | 4.31          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H    | 1        | 4.31          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H    | 11       | 4.31          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H    | 11       | 4.31          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H    | 17       | 4.31          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H    | 17       | 4.31          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2  | 20       | 4.31          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3  | 20       | 4.31          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 5        | 4.31          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 11       | 4.31          |
| (1,4677) | 1:A:27:GLY:H   | 1:A:29:GLY:HA3  | 18       | 4.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 16       | 4.31          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 16       | 4.31          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 18       | 4.31          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 18       | 4.31          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 20       | 4.31          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 20       | 4.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 5        | 4.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 5        | 4.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 7        | 4.31          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 7        | 4.31          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 15       | 4.31          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 15       | 4.31          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 8        | 4.31          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 19       | 4.31          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 19       | 4.31          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 8        | 4.31          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 8        | 4.31          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 9        | 4.31          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 9        | 4.31          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 7        | 4.31          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 8        | 4.31          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 6        | 4.31          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 3        | 4.31          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 15       | 4.31          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 15       | 4.31          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 20       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 11       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 11       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 11       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 16       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 16       | 4.31          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 16       | 4.31          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 18       | 4.31          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 18       | 4.31          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 18       | 4.31          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 1        | 4.31          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 1        | 4.31          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 1        | 4.31          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 15       | 4.31          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 15       | 4.31          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 15       | 4.31          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 15       | 4.31          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2  | 7        | 4.31          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3  | 7        | 4.31          |
| (1,3247) | 1:A:14:CYS:HB3 | 1:A:28:SER:HB3  | 12       | 4.31          |
| (1,3195) | 1:A:14:CYS:HB2 | 1:A:16:GLY:HA3  | 7        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD11 | 1        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD12 | 1        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 1        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 1        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 1        | 4.31          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 1        | 4.31          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 11       | 4.31          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 11       | 4.31          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 11       | 4.31          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 11       | 4.31          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 4        | 4.31          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 6        | 4.31          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 2        | 4.31          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 6        | 4.31          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 10       | 4.31          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2  | 17       | 4.31          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3  | 17       | 4.31          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 14       | 4.31          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3  | 14       | 4.31          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 20       | 4.31          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 9        | 4.31          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 5        | 4.31          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 16       | 4.31          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 18       | 4.31          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 2        | 4.31          |
| (1,1114) | 1:A:4:ASN:HA   | 1:A:6:GLN:HB3   | 11       | 4.31          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 5        | 4.3           |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 5        | 4.3           |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 7        | 4.3           |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 7        | 4.3           |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 14       | 4.3           |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 14       | 4.3           |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 5        | 4.3           |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 12       | 4.3           |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 20       | 4.3           |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 13       | 4.3           |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 16       | 4.3           |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 18       | 4.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 6        | 4.3           |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 11       | 4.3           |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1 | 6        | 4.3           |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1 | 6        | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2 | 14       | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2 | 14       | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2 | 14       | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3 | 14       | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3 | 14       | 4.3           |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3 | 14       | 4.3           |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 18       | 4.3           |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB1 | 12       | 4.3           |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB2 | 12       | 4.3           |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB3 | 12       | 4.3           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 6        | 4.3           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 6        | 4.3           |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 11       | 4.3           |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 11       | 4.3           |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 11       | 4.3           |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 11       | 4.3           |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 19       | 4.3           |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 19       | 4.3           |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 16       | 4.3           |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 16       | 4.3           |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 7        | 4.3           |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 7        | 4.3           |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 11       | 4.3           |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 11       | 4.3           |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 14       | 4.3           |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 7        | 4.3           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 6        | 4.3           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 6        | 4.3           |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 14       | 4.3           |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 14       | 4.3           |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 1        | 4.3           |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 7        | 4.3           |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 5        | 4.3           |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 16       | 4.3           |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 18       | 4.3           |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 19       | 4.3           |
| (1,4038) | 1:A:21:SER:H    | 1:A:32:TYR:H   | 20       | 4.3           |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 20       | 4.3           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 20       | 4.3           |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 20       | 4.3           |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 20       | 4.3           |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 20       | 4.3           |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 20       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 11       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 11       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 11       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 12       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 12       | 4.3           |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 12       | 4.3           |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 7        | 4.3           |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 7        | 4.3           |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 7        | 4.3           |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 15       | 4.3           |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 15       | 4.3           |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 15       | 4.3           |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 15       | 4.3           |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 20       | 4.3           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 3        | 4.3           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 3        | 4.3           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2  | 12       | 4.3           |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3  | 12       | 4.3           |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 19       | 4.3           |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 19       | 4.3           |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3  | 14       | 4.3           |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 18       | 4.3           |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 19       | 4.3           |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG   | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 10       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 11       | 4.3           |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 11       | 4.3           |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2  | 1        | 4.3           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 11       | 4.3           |
| (1,2042) | 1:A:8:GLY:H    | 1:A:20:CYS:H    | 17       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 18       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 18       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 18       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 18       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 20       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 20       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 20       | 4.3           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 20       | 4.3           |
| (1,1986) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HE   | 20       | 4.3           |
| (1,1986) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HE   | 20       | 4.3           |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 3        | 4.3           |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 14       | 4.3           |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 3        | 4.3           |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 2        | 4.3           |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 2        | 4.3           |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 9        | 4.3           |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 11       | 4.3           |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 8        | 4.3           |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 4        | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 12       | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 12       | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 16       | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 16       | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 20       | 4.29          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 20       | 4.29          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 18       | 4.29          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 19       | 4.29          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 20       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 10       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 10       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 10       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 10       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 10       | 4.29          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 10       | 4.29          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H    | 10       | 4.29          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H    | 10       | 4.29          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB2  | 12       | 4.29          |
| (1,4886) | 1:A:31:LYS:HG3 | 1:A:33:CYS:HB3  | 12       | 4.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1  | 14       | 4.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2  | 14       | 4.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB3 | 14       | 4.29          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 8        | 4.29          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 8        | 4.29          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 3        | 4.29          |
| (1,4770) | 1:A:29:GLY:H    | 1:A:35:HIS:HB3 | 8        | 4.29          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 3        | 4.29          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 3        | 4.29          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2 | 17       | 4.29          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 18       | 4.29          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 19       | 4.29          |
| (1,4703) | 1:A:27:GLY:HA2  | 1:A:33:CYS:H   | 20       | 4.29          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 16       | 4.29          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA2 | 14       | 4.29          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA2 | 14       | 4.29          |
| (1,4418) | 1:A:23:TYR:HE1  | 1:A:27:GLY:HA3 | 14       | 4.29          |
| (1,4418) | 1:A:23:TYR:HE2  | 1:A:27:GLY:HA3 | 14       | 4.29          |
| (1,4394) | 1:A:23:TYR:HD1  | 1:A:26:CYS:H   | 1        | 4.29          |
| (1,4394) | 1:A:23:TYR:HD2  | 1:A:26:CYS:H   | 1        | 4.29          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1 | 12       | 4.29          |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 12       | 4.29          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 20       | 4.29          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 20       | 4.29          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 18       | 4.29          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 18       | 4.29          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 20       | 4.29          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 5        | 4.29          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 13       | 4.29          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 5        | 4.29          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 5        | 4.29          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 3        | 4.29          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 4        | 4.29          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 6        | 4.29          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 11       | 4.29          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 8        | 4.29          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 5        | 4.29          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 8        | 4.29          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 12       | 4.29          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 10       | 4.29          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 10       | 4.29          |
| (1,3707) | 1:A:18:LEU:HB3  | 1:A:21:SER:HG  | 14       | 4.29          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H   | 17       | 4.29          |
| (1,3378) | 1:A:15:ARG:HG2  | 1:A:27:GLY:HA2 | 11       | 4.29          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3378) | 1:A:15:ARG:HG3 | 1:A:27:GLY:HA2  | 11       | 4.29          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 13       | 4.29          |
| (1,3195) | 1:A:14:CYS:HB2 | 1:A:16:GLY:HA3  | 9        | 4.29          |
| (1,3195) | 1:A:14:CYS:HB2 | 1:A:16:GLY:HA3  | 16       | 4.29          |
| (1,3195) | 1:A:14:CYS:HB2 | 1:A:16:GLY:HA3  | 20       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD11 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD12 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 3        | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD11 | 13       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD12 | 13       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 13       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 13       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 13       | 4.29          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 13       | 4.29          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 15       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 5        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 5        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 5        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 5        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 8        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 8        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 8        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 8        | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 10       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 10       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 10       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 10       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 13       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 13       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 13       | 4.29          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 13       | 4.29          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 4        | 4.29          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 14       | 4.29          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 4        | 4.29          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 11       | 4.29          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 13       | 4.29          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 10       | 4.29          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 10       | 4.29          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 4        | 4.29          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1480) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HG   | 7        | 4.29          |
| (1,835)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HE21  | 15       | 4.28          |
| (1,685)  | 1:A:2:GLY:HA2   | 1:A:11:TRP:HE1  | 14       | 4.28          |
| (1,607)  | 1:A:2:GLY:H     | 1:A:10:GLY:HA3  | 7        | 4.28          |
| (1,607)  | 1:A:2:GLY:H     | 1:A:10:GLY:HA3  | 12       | 4.28          |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3   | 20       | 4.28          |
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3   | 20       | 4.28          |
| (1,530)  | 1:A:1:SER:HA    | 1:A:26:CYS:HB2  | 9        | 4.28          |
| (1,529)  | 1:A:1:SER:HA    | 1:A:26:CYS:H    | 6        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 5        | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 18       | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 18       | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 18       | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 18       | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 18       | 4.28          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 18       | 4.28          |
| (1,4931) | 1:A:32:TYR:HE1  | 1:A:34:ALA:H    | 16       | 4.28          |
| (1,4931) | 1:A:32:TYR:HE2  | 1:A:34:ALA:H    | 16       | 4.28          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 20       | 4.28          |
| (1,4877) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HE1  | 7        | 4.28          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3  | 20       | 4.28          |
| (1,4816) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HB2  | 19       | 4.28          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H    | 17       | 4.28          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 7        | 4.28          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 9        | 4.28          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA   | 7        | 4.28          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA   | 7        | 4.28          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA   | 20       | 4.28          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA   | 20       | 4.28          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 11       | 4.28          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 11       | 4.28          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 3        | 4.28          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 17       | 4.28          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 9        | 4.28          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 2        | 4.28          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 15       | 4.28          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 18       | 4.28          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 19       | 4.28          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 20       | 4.28          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 12       | 4.28          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 17       | 4.28          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 1        | 4.28          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 16       | 4.28          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H    | 7        | 4.28          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3  | 3        | 4.28          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 3        | 4.28          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 14       | 4.28          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 13       | 4.28          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 13       | 4.28          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 13       | 4.28          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 20       | 4.28          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3  | 20       | 4.28          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA   | 10       | 4.28          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE   | 19       | 4.28          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE   | 19       | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 4        | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 4        | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 4        | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 4        | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 4        | 4.28          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 4        | 4.28          |
| (1,2776) | 1:A:11:TRP:HE3  | 1:A:12:GLY:HA2  | 13       | 4.28          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2  | 8        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1  | 1        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2  | 1        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1  | 1        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2  | 1        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1  | 5        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2  | 5        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1  | 5        | 4.28          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2  | 5        | 4.28          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE1  | 2        | 4.28          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE2  | 2        | 4.28          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE1  | 2        | 4.28          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE2  | 2        | 4.28          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE1  | 19       | 4.28          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE2  | 19       | 4.28          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE1  | 19       | 4.28          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE2  | 19       | 4.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 8        | 4.28          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 14       | 4.28          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 15       | 4.28          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG  | 20       | 4.28          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2 | 18       | 4.28          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 12       | 4.28          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2 | 19       | 4.28          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD1 | 2        | 4.28          |
| (1,1495) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HD2 | 2        | 4.28          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2 | 12       | 4.28          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 5        | 4.27          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 5        | 4.27          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3 | 8        | 4.27          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3 | 8        | 4.27          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3 | 10       | 4.27          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3 | 10       | 4.27          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3 | 15       | 4.27          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3 | 15       | 4.27          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 20       | 4.27          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 13       | 4.27          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 7        | 4.27          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 7        | 4.27          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 8        | 4.27          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 8        | 4.27          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2  | 1        | 4.27          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3  | 1        | 4.27          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1 | 7        | 4.27          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H   | 19       | 4.27          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3 | 8        | 4.27          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3 | 18       | 4.27          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 2        | 4.27          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 2        | 4.27          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 2        | 4.27          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 2        | 4.27          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 12       | 4.27          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 5        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 1        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 3        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 5        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 6        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 9        | 4.27          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 11       | 4.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA   | 17       | 4.27          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 3        | 4.27          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 3        | 4.27          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 3        | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 17       | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 17       | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 17       | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 17       | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 17       | 4.27          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 17       | 4.27          |
| (1,4900) | 1:A:31:LYS:HB3 | 1:A:35:HIS:H    | 6        | 4.27          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 20       | 4.27          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 20       | 4.27          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 16       | 4.27          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 16       | 4.27          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG2  | 17       | 4.27          |
| (1,4763) | 1:A:29:GLY:H   | 1:A:31:LYS:HG3  | 17       | 4.27          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 8        | 4.27          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 11       | 4.27          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 12       | 4.27          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 14       | 4.27          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 10       | 4.27          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 18       | 4.27          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 19       | 4.27          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 20       | 4.27          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 13       | 4.27          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 13       | 4.27          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 13       | 4.27          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 13       | 4.27          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE1  | 7        | 4.27          |
| (1,4150) | 1:A:22:GLN:HA  | 1:A:32:TYR:HE2  | 7        | 4.27          |
| (1,4127) | 1:A:22:GLN:H   | 1:A:33:CYS:H    | 4        | 4.27          |
| (1,4127) | 1:A:22:GLN:H   | 1:A:33:CYS:H    | 9        | 4.27          |
| (1,4127) | 1:A:22:GLN:H   | 1:A:33:CYS:H    | 16       | 4.27          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 6        | 4.27          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H    | 4        | 4.27          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H    | 13       | 4.27          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H    | 15       | 4.27          |
| (1,3867) | 1:A:19:CYS:HB2 | 1:A:21:SER:HG   | 3        | 4.27          |
| (1,3867) | 1:A:19:CYS:HB2 | 1:A:21:SER:HG   | 4        | 4.27          |
| (1,3865) | 1:A:19:CYS:HA  | 1:A:35:HIS:H    | 19       | 4.27          |
| (1,3860) | 1:A:19:CYS:HA  | 1:A:28:SER:H    | 4        | 4.27          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 6        | 4.27          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 20       | 4.27          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 20       | 4.27          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 20       | 4.27          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 8        | 4.27          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 8        | 4.27          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 8        | 4.27          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 9        | 4.27          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 9        | 4.27          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 9        | 4.27          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 14       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 14       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 14       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 19       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 19       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 19       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 20       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 20       | 4.27          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 20       | 4.27          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 9        | 4.27          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 9        | 4.27          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 4        | 4.27          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA   | 14       | 4.27          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 7        | 4.27          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 8        | 4.27          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 7        | 4.27          |
| (1,3197) | 1:A:14:CYS:HB2  | 1:A:21:SER:HB3  | 16       | 4.27          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 8        | 4.27          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 18       | 4.27          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 19       | 4.27          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H    | 13       | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 6        | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 17       | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 17       | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 17       | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 17       | 4.27          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 17       | 4.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 17       | 4.27          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 13       | 4.27          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 20       | 4.27          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1  | 11       | 4.27          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2  | 11       | 4.27          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1  | 11       | 4.27          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2  | 11       | 4.27          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 19       | 4.27          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 7        | 4.27          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 8        | 4.27          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 16       | 4.27          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 18       | 4.27          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE1  | 5        | 4.27          |
| (1,1496) | 1:A:5:GLY:HA3  | 1:A:32:TYR:HE2  | 5        | 4.27          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 19       | 4.27          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 16       | 4.27          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 16       | 4.26          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 16       | 4.26          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 11       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 11       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 11       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 15       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 15       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 17       | 4.26          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 17       | 4.26          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 5        | 4.26          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 3        | 4.26          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA   | 18       | 4.26          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA   | 19       | 4.26          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA   | 20       | 4.26          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H    | 16       | 4.26          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H    | 16       | 4.26          |
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1  | 4        | 4.26          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 1        | 4.26          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 2        | 4.26          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 3        | 4.26          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 13       | 4.26          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 16       | 4.26          |
| (1,4579) | 1:A:25:TYR:HE1 | 1:A:26:CYS:HB2  | 3        | 4.26          |
| (1,4579) | 1:A:25:TYR:HE2 | 1:A:26:CYS:HB2  | 3        | 4.26          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3  | 12       | 4.26          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3  | 12       | 4.26          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4413) | 1:A:23:TYR:HD1  | 1:A:35:HIS:HB3  | 19       | 4.26          |
| (1,4413) | 1:A:23:TYR:HD2  | 1:A:35:HIS:HB3  | 19       | 4.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1  | 12       | 4.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2  | 12       | 4.26          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3  | 12       | 4.26          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 4        | 4.26          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1  | 19       | 4.26          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2  | 19       | 4.26          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1  | 18       | 4.26          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2  | 18       | 4.26          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 19       | 4.26          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H    | 11       | 4.26          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 1        | 4.26          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 5        | 4.26          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA   | 11       | 4.26          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 2        | 4.26          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 2        | 4.26          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2  | 17       | 4.26          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3  | 17       | 4.26          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 13       | 4.26          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H    | 2        | 4.26          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H    | 9        | 4.26          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2  | 7        | 4.26          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG2  | 20       | 4.26          |
| (1,3878) | 1:A:19:CYS:HB2  | 1:A:31:LYS:HG3  | 20       | 4.26          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 6        | 4.26          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 10       | 4.26          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H    | 5        | 4.26          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H    | 6        | 4.26          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 2        | 4.26          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 5        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1  | 8        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 8        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 8        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 8        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 8        | 4.26          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 8        | 4.26          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 16       | 4.26          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 18       | 4.26          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 19       | 4.26          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 14       | 4.26          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 8        | 4.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3 | 8        | 4.26          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2 | 12       | 4.26          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3 | 12       | 4.26          |
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 7        | 4.26          |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 7        | 4.26          |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA  | 2        | 4.26          |
| (1,3324) | 1:A:15:ARG:HB3 | 1:A:19:CYS:HA  | 3        | 4.26          |
| (1,3258) | 1:A:15:ARG:H   | 1:A:19:CYS:HB3 | 8        | 4.26          |
| (1,3258) | 1:A:15:ARG:H   | 1:A:19:CYS:HB3 | 18       | 4.26          |
| (1,3258) | 1:A:15:ARG:H   | 1:A:19:CYS:HB3 | 20       | 4.26          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE  | 16       | 4.26          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2 | 18       | 4.26          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2 | 19       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 7        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 7        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 7        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 7        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 8        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 8        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 8        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 8        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 9        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 9        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 9        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 9        | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 12       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 12       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 12       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 12       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 15       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 15       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 15       | 4.26          |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 15       | 4.26          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1 | 1        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2 | 1        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1 | 1        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2 | 1        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1 | 7        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2 | 7        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1 | 7        | 4.26          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2 | 7        | 4.26          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H   | 14       | 4.26          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 8        | 4.26          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 1        | 4.26          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 3        | 4.26          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 16       | 4.26          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 5        | 4.26          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 5        | 4.26          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA2   | 6        | 4.26          |
| (1,1738) | 1:A:6:GLN:HG3  | 1:A:8:GLY:HA3   | 6        | 4.26          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3  | 16       | 4.26          |
| (1,1511) | 1:A:6:GLN:H    | 1:A:11:TRP:HH2  | 20       | 4.26          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 14       | 4.26          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 9        | 4.26          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 7        | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 16       | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 16       | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 16       | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 16       | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 16       | 4.26          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 16       | 4.26          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 10       | 4.25          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 2        | 4.25          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 6        | 4.25          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 10       | 4.25          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 8        | 4.25          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 20       | 4.25          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 19       | 4.25          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 19       | 4.25          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 19       | 4.25          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 19       | 4.25          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3   | 1        | 4.25          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3   | 1        | 4.25          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 11       | 4.25          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 11       | 4.25          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H    | 11       | 4.25          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2  | 20       | 4.25          |
| (1,4873) | 1:A:31:LYS:HG2 | 1:A:35:HIS:H    | 20       | 4.25          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 8        | 4.25          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 8        | 4.25          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 8        | 4.25          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 12       | 4.25          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 2        | 4.25          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 2        | 4.25          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 2        | 4.25          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 5        | 4.25          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 5        | 4.25          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 17       | 4.25          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 17       | 4.25          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2 | 4        | 4.25          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2 | 13       | 4.25          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2 | 15       | 4.25          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2 | 5        | 4.25          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2 | 6        | 4.25          |
| (1,4677) | 1:A:27:GLY:H    | 1:A:29:GLY:HA3 | 10       | 4.25          |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 6        | 4.25          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 6        | 4.25          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 8        | 4.25          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 8        | 4.25          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 20       | 4.25          |
| (1,4265) | 1:A:22:GLN:HG3  | 1:A:33:CYS:H   | 1        | 4.25          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 9        | 4.25          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 9        | 4.25          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 12       | 4.25          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 12       | 4.25          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 1        | 4.25          |
| (1,4127) | 1:A:22:GLN:H    | 1:A:33:CYS:H   | 17       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 2        | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 7        | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 8        | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 9        | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 10       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 13       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 14       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 15       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 16       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 18       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 19       | 4.25          |
| (1,4105) | 1:A:22:GLN:H    | 1:A:25:TYR:HA  | 20       | 4.25          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 12       | 4.25          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 12       | 4.25          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 18       | 4.25          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 19       | 4.25          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 1        | 4.25          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 11       | 4.25          |
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H   | 12       | 4.25          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3868) | 1:A:19:CYS:HB2  | 1:A:22:GLN:H    | 14       | 4.25          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 1        | 4.25          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 7        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 1        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 1        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 1        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 9        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 9        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 9        | 4.25          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 19       | 4.25          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 19       | 4.25          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 19       | 4.25          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 20       | 4.25          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 20       | 4.25          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 20       | 4.25          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 19       | 4.25          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 19       | 4.25          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 19       | 4.25          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 16       | 4.25          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 16       | 4.25          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 16       | 4.25          |
| (1,3609) | 1:A:17:GLY:HA2  | 1:A:28:SER:H    | 16       | 4.25          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3  | 19       | 4.25          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 9        | 4.25          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H    | 9        | 4.25          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 1        | 4.25          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 1        | 4.25          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 14       | 4.25          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA   | 9        | 4.25          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2  | 14       | 4.25          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 12       | 4.25          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 19       | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 5        | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 5        | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD13 | 5        | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD21 | 5        | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD22 | 5        | 4.25          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD23 | 5        | 4.25          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H    | 17       | 4.25          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE1  | 15       | 4.25          |
| (1,2005) | 1:A:7:CYS:HB2   | 1:A:25:TYR:HE2  | 15       | 4.25          |
| (1,2005) | 1:A:7:CYS:HB3   | 1:A:25:TYR:HE1  | 15       | 4.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 15       | 4.25          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1  | 6        | 4.25          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 6        | 4.25          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 9        | 4.25          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 8        | 4.25          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 8        | 4.25          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 16       | 4.25          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1  | 15       | 4.24          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2  | 15       | 4.24          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 17       | 4.24          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 17       | 4.24          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 19       | 4.24          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 2        | 4.24          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 18       | 4.24          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 18       | 4.24          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 19       | 4.24          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 19       | 4.24          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 13       | 4.24          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 13       | 4.24          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 7        | 4.24          |
| (1,607)  | 1:A:2:GLY:H    | 1:A:10:GLY:HA3  | 9        | 4.24          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 6        | 4.24          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 6        | 4.24          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 6        | 4.24          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 6        | 4.24          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H    | 18       | 4.24          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 8        | 4.24          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 7        | 4.24          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 7        | 4.24          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 8        | 4.24          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 8        | 4.24          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 18       | 4.24          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 19       | 4.24          |
| (1,4761) | 1:A:29:GLY:H   | 1:A:31:LYS:HA   | 20       | 4.24          |
| (1,4724) | 1:A:28:SER:H   | 1:A:30:PRO:HD2  | 10       | 4.24          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 9        | 4.24          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 15       | 4.24          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 4        | 4.24          |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 4        | 4.24          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 12       | 4.24          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 12       | 4.24          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 12       | 4.24          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 20       | 4.24          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 2        | 4.24          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 11       | 4.24          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 13       | 4.24          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 9        | 4.24          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 1        | 4.24          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 15       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 16       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 16       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 16       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 18       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 18       | 4.24          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 18       | 4.24          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 18       | 4.24          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 18       | 4.24          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 18       | 4.24          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 10       | 4.24          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 10       | 4.24          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 10       | 4.24          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 5        | 4.24          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 12       | 4.24          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 12       | 4.24          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 2        | 4.24          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 4        | 4.24          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 5        | 4.24          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 6        | 4.24          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 10       | 4.24          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 7        | 4.24          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2 | 6        | 4.24          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3 | 6        | 4.24          |
| (1,1945) | 1:A:7:CYS:H     | 1:A:21:SER:HB3 | 13       | 4.24          |
| (1,1945) | 1:A:7:CYS:H     | 1:A:21:SER:HB3 | 15       | 4.24          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 14       | 4.24          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 14       | 4.24          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 12       | 4.24          |
| (1,1760) | 1:A:6:GLN:HG3   | 1:A:21:SER:HG  | 7        | 4.24          |
| (1,1760) | 1:A:6:GLN:HG3   | 1:A:21:SER:HG  | 18       | 4.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 19       | 4.24          |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 12       | 4.24          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 20       | 4.24          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 16       | 4.24          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H    | 9        | 4.24          |
| (1,1480) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HG   | 20       | 4.24          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2  | 1        | 4.24          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3  | 1        | 4.24          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 8        | 4.24          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 2        | 4.24          |
| (1,1222) | 1:A:4:ASN:HB3  | 1:A:25:TYR:H    | 6        | 4.24          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2  | 12       | 4.24          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 12       | 4.23          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 12       | 4.23          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 13       | 4.23          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 13       | 4.23          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 2        | 4.23          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 17       | 4.23          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 7        | 4.23          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 3        | 4.23          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 5        | 4.23          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 6        | 4.23          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 11       | 4.23          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 14       | 4.23          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 19       | 4.23          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 4        | 4.23          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 4        | 4.23          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 4        | 4.23          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 4        | 4.23          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 4        | 4.23          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 4        | 4.23          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 7        | 4.23          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H    | 4        | 4.23          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 14       | 4.23          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H    | 19       | 4.23          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 14       | 4.23          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 15       | 4.23          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 13       | 4.23          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 13       | 4.23          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3  | 13       | 4.23          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 15       | 4.23          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 15       | 4.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 15       | 4.23          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2 | 12       | 4.23          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3 | 12       | 4.23          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 3        | 4.23          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 3        | 4.23          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 12       | 4.23          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 12       | 4.23          |
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA  | 16       | 4.23          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 7        | 4.23          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 7        | 4.23          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2 | 16       | 4.23          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 7        | 4.23          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 7        | 4.23          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 7        | 4.23          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 5        | 4.23          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 9        | 4.23          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H   | 17       | 4.23          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 5        | 4.23          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 12       | 4.23          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 8        | 4.23          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 11       | 4.23          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 13       | 4.23          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 2        | 4.23          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 2        | 4.23          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 2        | 4.23          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 20       | 4.23          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 20       | 4.23          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 20       | 4.23          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 9        | 4.23          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 9        | 4.23          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 9        | 4.23          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 17       | 4.23          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 4        | 4.23          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB2 | 16       | 4.23          |
| (1,3582) | 1:A:17:GLY:H    | 1:A:33:CYS:HB3 | 16       | 4.23          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 17       | 4.23          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 14       | 4.23          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 3        | 4.23          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 3        | 4.23          |
| (1,3375) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HA  | 14       | 4.23          |
| (1,3375) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HA  | 14       | 4.23          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 9        | 4.23          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H    | 1        | 4.23          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 3        | 4.23          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 9        | 4.23          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 16       | 4.23          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 2        | 4.23          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 2        | 4.23          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 1        | 4.23          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 8        | 4.23          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 12       | 4.23          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 18       | 4.23          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 19       | 4.23          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 20       | 4.23          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1  | 5        | 4.23          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1  | 10       | 4.23          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 4        | 4.23          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 11       | 4.23          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3  | 13       | 4.23          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 18       | 4.23          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 19       | 4.23          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 7        | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 18       | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 18       | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 18       | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 18       | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 18       | 4.23          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 18       | 4.23          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1  | 1        | 4.22          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2  | 1        | 4.22          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD1  | 14       | 4.22          |
| (1,976)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HD2  | 14       | 4.22          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 9        | 4.22          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 9        | 4.22          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 3        | 4.22          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 18       | 4.22          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 19       | 4.22          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 13       | 4.22          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3  | 9        | 4.22          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3  | 9        | 4.22          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 17       | 4.22          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 17       | 4.22          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 17       | 4.22          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 17       | 4.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 2        | 4.22          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 2        | 4.22          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 2        | 4.22          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 2        | 4.22          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 8        | 4.22          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 8        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 2        | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 14       | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 14       | 4.22          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 14       | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 14       | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 14       | 4.22          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 14       | 4.22          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2  | 15       | 4.22          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3  | 15       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 11       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 11       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 11       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 11       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 11       | 4.22          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 11       | 4.22          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 7        | 4.22          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H    | 10       | 4.22          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 10       | 4.22          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 10       | 4.22          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 10       | 4.22          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 2        | 4.22          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 4        | 4.22          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 13       | 4.22          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1  | 19       | 4.22          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2  | 19       | 4.22          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3  | 19       | 4.22          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1  | 4        | 4.22          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2  | 4        | 4.22          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3  | 4        | 4.22          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 10       | 4.22          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 18       | 4.22          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 2        | 4.22          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1  | 5        | 4.22          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2  | 5        | 4.22          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 13       | 4.22          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 20       | 4.22          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 9        | 4.22          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 17       | 4.22          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H    | 15       | 4.22          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H    | 15       | 4.22          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H    | 15       | 4.22          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 11       | 4.22          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 11       | 4.22          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 11       | 4.22          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 13       | 4.22          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 13       | 4.22          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 13       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 5        | 4.22          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 5        | 4.22          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 5        | 4.22          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 11       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 11       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 11       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 13       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 13       | 4.22          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 13       | 4.22          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 1        | 4.22          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 1        | 4.22          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 6        | 4.22          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 6        | 4.22          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2  | 9        | 4.22          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3  | 9        | 4.22          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3  | 6        | 4.22          |
| (1,3343) | 1:A:15:ARG:HB3  | 1:A:27:GLY:HA2  | 13       | 4.22          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 15       | 4.22          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2  | 15       | 4.22          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD11 | 2        | 4.22          |
| (1,3094) | 1:A:13:GLY:H    | 1:A:18:LEU:HD12 | 2        | 4.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD13 | 2        | 4.22          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD21 | 2        | 4.22          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD22 | 2        | 4.22          |
| (1,3094) | 1:A:13:GLY:H   | 1:A:18:LEU:HD23 | 2        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 3        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 3        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 4        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 4        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 5        | 4.22          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 5        | 4.22          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 11       | 4.22          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 13       | 4.22          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 1        | 4.22          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 7        | 4.22          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 9        | 4.22          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 11       | 4.22          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1  | 2        | 4.22          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 2        | 4.22          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 5        | 4.22          |
| (1,1760) | 1:A:6:GLN:HG3  | 1:A:21:SER:HG   | 10       | 4.22          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 7        | 4.22          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 8        | 4.22          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 12       | 4.22          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 16       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 19       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 19       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 19       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 19       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 19       | 4.22          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 19       | 4.22          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 7        | 4.22          |
| (1,897)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HB3  | 11       | 4.21          |
| (1,897)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HB3  | 11       | 4.21          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 3        | 4.21          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 16       | 4.21          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 18       | 4.21          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 12       | 4.21          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 16       | 4.21          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 20       | 4.21          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 20       | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 4        | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 7        | 4.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 8        | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 9        | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 12       | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 16       | 4.21          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 20       | 4.21          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 9        | 4.21          |
| (1,685)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HE1  | 18       | 4.21          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1  | 4        | 4.21          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2  | 4        | 4.21          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1  | 4        | 4.21          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2  | 4        | 4.21          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 3        | 4.21          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 3        | 4.21          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 3        | 4.21          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 3        | 4.21          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 3        | 4.21          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 3        | 4.21          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 1        | 4.21          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 20       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 12       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 12       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 12       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 12       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 12       | 4.21          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 12       | 4.21          |
| (1,4910) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:HB2  | 6        | 4.21          |
| (1,4910) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:HB2  | 6        | 4.21          |
| (1,4910) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:HB2  | 6        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 2        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 2        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 2        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 2        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 2        | 4.21          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 2        | 4.21          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 18       | 4.21          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 18       | 4.21          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 18       | 4.21          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 18       | 4.21          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 18       | 4.21          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 18       | 4.21          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H    | 11       | 4.21          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2  | 8        | 4.21          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1  | 14       | 4.21          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2  | 14       | 4.21          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3  | 14       | 4.21          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2  | 16       | 4.21          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3  | 16       | 4.21          |
| (1,4761) | 1:A:29:GLY:H    | 1:A:31:LYS:HA   | 10       | 4.21          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD2  | 15       | 4.21          |
| (1,4729) | 1:A:28:SER:H    | 1:A:31:LYS:HD3  | 15       | 4.21          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 18       | 4.21          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 19       | 4.21          |
| (1,4724) | 1:A:28:SER:H    | 1:A:30:PRO:HD2  | 20       | 4.21          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2  | 2        | 4.21          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2  | 4        | 4.21          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2  | 7        | 4.21          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 16       | 4.21          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 16       | 4.21          |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2  | 3        | 4.21          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 3        | 4.21          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1  | 14       | 4.21          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2  | 14       | 4.21          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA   | 10       | 4.21          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3  | 2        | 4.21          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 1        | 4.21          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 1        | 4.21          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 15       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 7        | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 8        | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 9        | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 12       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 14       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 16       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 18       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 19       | 4.21          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 20       | 4.21          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 14       | 4.21          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 15       | 4.21          |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H    | 11       | 4.21          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 15       | 4.21          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H    | 18       | 4.21          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 7        | 4.21          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 7        | 4.21          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 7        | 4.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 16       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 16       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 16       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 18       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 18       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 18       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 19       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 19       | 4.21          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 19       | 4.21          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 6        | 4.21          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 6        | 4.21          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 6        | 4.21          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 6        | 4.21          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 6        | 4.21          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 6        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 3        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 3        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 3        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 4        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 4        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 4        | 4.21          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 17       | 4.21          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 17       | 4.21          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 17       | 4.21          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 19       | 4.21          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 19       | 4.21          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 19       | 4.21          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 2        | 4.21          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 2        | 4.21          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 2        | 4.21          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 10       | 4.21          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 2        | 4.21          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 1        | 4.21          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 8        | 4.21          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2 | 7        | 4.21          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3 | 7        | 4.21          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 4        | 4.21          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 10       | 4.21          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1 | 2        | 4.21          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2 | 2        | 4.21          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1 | 2        | 4.21          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2 | 2        | 4.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 15       | 4.21          |
| (1,1945) | 1:A:7:CYS:H    | 1:A:21:SER:HB3  | 16       | 4.21          |
| (1,1927) | 1:A:7:CYS:H    | 1:A:11:TRP:HZ2  | 17       | 4.21          |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 8        | 4.21          |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 14       | 4.21          |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 20       | 4.21          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3  | 6        | 4.21          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 13       | 4.21          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2   | 17       | 4.21          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3   | 17       | 4.21          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 8        | 4.21          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1  | 8        | 4.2           |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2  | 8        | 4.2           |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3  | 8        | 4.2           |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 4        | 4.2           |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 12       | 4.2           |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 12       | 4.2           |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3   | 17       | 4.2           |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 12       | 4.2           |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 15       | 4.2           |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 16       | 4.2           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 5        | 4.2           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 5        | 4.2           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 5        | 4.2           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 5        | 4.2           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 13       | 4.2           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 13       | 4.2           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 13       | 4.2           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 13       | 4.2           |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2   | 8        | 4.2           |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3   | 8        | 4.2           |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2   | 8        | 4.2           |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3   | 8        | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 16       | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 16       | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 16       | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 16       | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 16       | 4.2           |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 16       | 4.2           |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1  | 17       | 4.2           |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 10       | 4.2           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 14       | 4.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3 | 14       | 4.2           |
| (1,4804) | 1:A:30:PRO:HB2  | 1:A:33:CYS:HA  | 9        | 4.2           |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 12       | 4.2           |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 12       | 4.2           |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 12       | 4.2           |
| (1,4579) | 1:A:25:TYR:HE1  | 1:A:26:CYS:HB2 | 12       | 4.2           |
| (1,4579) | 1:A:25:TYR:HE2  | 1:A:26:CYS:HB2 | 12       | 4.2           |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 17       | 4.2           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 3        | 4.2           |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 3        | 4.2           |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 16       | 4.2           |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 16       | 4.2           |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 16       | 4.2           |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 9        | 4.2           |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 13       | 4.2           |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 15       | 4.2           |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG  | 18       | 4.2           |
| (1,3865) | 1:A:19:CYS:HA   | 1:A:35:HIS:H   | 17       | 4.2           |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 19       | 4.2           |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 8        | 4.2           |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 11       | 4.2           |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 11       | 4.2           |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 11       | 4.2           |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 7        | 4.2           |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 7        | 4.2           |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 7        | 4.2           |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 4        | 4.2           |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 4        | 4.2           |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 4        | 4.2           |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 10       | 4.2           |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 10       | 4.2           |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 10       | 4.2           |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 17       | 4.2           |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 17       | 4.2           |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 17       | 4.2           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 11       | 4.2           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 11       | 4.2           |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 9        | 4.2           |
| (1,3618) | 1:A:17:GLY:HA2  | 1:A:35:HIS:HE1 | 12       | 4.2           |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 16       | 4.2           |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 16       | 4.2           |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 15       | 4.2           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 13       | 4.2           |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD1 | 4        | 4.2           |
| (1,2015) | 1:A:7:CYS:HB2  | 1:A:32:TYR:HD2 | 4        | 4.2           |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD1 | 4        | 4.2           |
| (1,2015) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HD2 | 4        | 4.2           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1 | 14       | 4.2           |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2 | 14       | 4.2           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1 | 14       | 4.2           |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2 | 14       | 4.2           |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H   | 12       | 4.2           |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 7        | 4.2           |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H   | 9        | 4.2           |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2 | 14       | 4.2           |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 12       | 4.19          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 7        | 4.19          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 8        | 4.19          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 9        | 4.19          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2  | 8        | 4.19          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3  | 8        | 4.19          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2  | 16       | 4.19          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3  | 16       | 4.19          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3  | 1        | 4.19          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3  | 11       | 4.19          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3  | 13       | 4.19          |
| (1,768)  | 1:A:3:PRO:HB2  | 1:A:5:GLY:HA3  | 15       | 4.19          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H   | 8        | 4.19          |
| (1,574)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HB3 | 5        | 4.19          |
| (1,574)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HB3 | 5        | 4.19          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 13       | 4.19          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 8        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 4        | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1 | 13       | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2 | 13       | 4.19          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3 | 13       | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1 | 13       | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2 | 13       | 4.19          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3 | 13       | 4.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 19       | 4.19          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 19       | 4.19          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H   | 6        | 4.19          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 1        | 4.19          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 3        | 4.19          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 6        | 4.19          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 11       | 4.19          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 17       | 4.19          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 15       | 4.19          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 15       | 4.19          |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 15       | 4.19          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 2        | 4.19          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 2        | 4.19          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 16       | 4.19          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 16       | 4.19          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 16       | 4.19          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 16       | 4.19          |
| (1,4396) | 1:A:23:TYR:HD1 | 1:A:27:GLY:HA3 | 2        | 4.19          |
| (1,4396) | 1:A:23:TYR:HD2 | 1:A:27:GLY:HA3 | 2        | 4.19          |
| (1,4394) | 1:A:23:TYR:HD1 | 1:A:26:CYS:H   | 14       | 4.19          |
| (1,4394) | 1:A:23:TYR:HD2 | 1:A:26:CYS:H   | 14       | 4.19          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2 | 13       | 4.19          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3 | 13       | 4.19          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 18       | 4.19          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 18       | 4.19          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1 | 18       | 4.19          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2 | 18       | 4.19          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H   | 7        | 4.19          |
| (1,4139) | 1:A:22:GLN:HA  | 1:A:25:TYR:HD1 | 1        | 4.19          |
| (1,4139) | 1:A:22:GLN:HA  | 1:A:25:TYR:HD2 | 1        | 4.19          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG2 | 19       | 4.19          |
| (1,4087) | 1:A:21:SER:HG  | 1:A:31:LYS:HG3 | 19       | 4.19          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3 | 11       | 4.19          |
| (1,4066) | 1:A:21:SER:HG  | 1:A:22:GLN:HG2 | 4        | 4.19          |
| (1,4049) | 1:A:21:SER:HB2 | 1:A:28:SER:H   | 7        | 4.19          |
| (1,4049) | 1:A:21:SER:HB2 | 1:A:28:SER:H   | 14       | 4.19          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H   | 18       | 4.19          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H   | 19       | 4.19          |
| (1,4039) | 1:A:21:SER:H   | 1:A:33:CYS:H   | 20       | 4.19          |
| (1,3867) | 1:A:19:CYS:HB2 | 1:A:21:SER:HG  | 16       | 4.19          |
| (1,3867) | 1:A:19:CYS:HB2 | 1:A:21:SER:HG  | 19       | 4.19          |
| (1,3865) | 1:A:19:CYS:HA  | 1:A:35:HIS:H   | 20       | 4.19          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 16       | 4.19          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 14       | 4.19          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 4        | 4.19          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 4        | 4.19          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 4        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 7        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 7        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 7        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 7        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 7        | 4.19          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 7        | 4.19          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 20       | 4.19          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 20       | 4.19          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 20       | 4.19          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 7        | 4.19          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB2 | 14       | 4.19          |
| (1,3473) | 1:A:16:GLY:H    | 1:A:26:CYS:HB3 | 14       | 4.19          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 10       | 4.19          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 20       | 4.19          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 14       | 4.19          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 19       | 4.19          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 19       | 4.19          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 12       | 4.19          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 9        | 4.19          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 18       | 4.19          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 2        | 4.19          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB2 | 10       | 4.19          |
| (1,2060) | 1:A:8:GLY:H     | 1:A:26:CYS:HB3 | 10       | 4.19          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 6        | 4.19          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 6        | 4.19          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1 | 13       | 4.19          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2 | 13       | 4.19          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1 | 13       | 4.19          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2 | 13       | 4.19          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 5        | 4.19          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 10       | 4.19          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 18       | 4.19          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 19       | 4.19          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 11       | 4.19          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 11       | 4.19          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 3        | 4.19          |
| (1,1511) | 1:A:6:GLN:H     | 1:A:11:TRP:HH2 | 9        | 4.19          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 18       | 4.19          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 20       | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 9        | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 9        | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 9        | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 9        | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 9        | 4.19          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 9        | 4.19          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 1        | 4.18          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 7        | 4.18          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 7        | 4.18          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 14       | 4.18          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 15       | 4.18          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 16       | 4.18          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 19       | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 9        | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 9        | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 9        | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 9        | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 9        | 4.18          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 9        | 4.18          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB1  | 15       | 4.18          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB2  | 15       | 4.18          |
| (1,4932) | 1:A:32:TYR:HE1 | 1:A:34:ALA:HB3  | 15       | 4.18          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB1  | 15       | 4.18          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB2  | 15       | 4.18          |
| (1,4932) | 1:A:32:TYR:HE2 | 1:A:34:ALA:HB3  | 15       | 4.18          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 15       | 4.18          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 15       | 4.18          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H    | 15       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 10       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 10       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 10       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 10       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 10       | 4.18          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 10       | 4.18          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA   | 7        | 4.18          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA   | 7        | 4.18          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 5        | 4.18          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA   | 7        | 4.18          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2  | 2        | 4.18          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3  | 2        | 4.18          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2  | 3        | 4.18          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3  | 3        | 4.18          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1  | 11       | 4.18          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2  | 11       | 4.18          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2  | 17       | 4.18          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 17       | 4.18          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 17       | 4.18          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 17       | 4.18          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1  | 3        | 4.18          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2  | 3        | 4.18          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2  | 14       | 4.18          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3  | 14       | 4.18          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 3        | 4.18          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 3        | 4.18          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 5        | 4.18          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 5        | 4.18          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 4        | 4.18          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 4        | 4.18          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 6        | 4.18          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 16       | 4.18          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H    | 12       | 4.18          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2  | 14       | 4.18          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3  | 14       | 4.18          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 17       | 4.18          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 17       | 4.18          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2  | 12       | 4.18          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2  | 10       | 4.18          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H    | 8        | 4.18          |
| (1,4039) | 1:A:21:SER:H    | 1:A:33:CYS:H    | 16       | 4.18          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H    | 17       | 4.18          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 1        | 4.18          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 2        | 4.18          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 10       | 4.18          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 11       | 4.18          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 7        | 4.18          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 8        | 4.18          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 9        | 4.18          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 17       | 4.18          |
| (1,3867) | 1:A:19:CYS:HB2  | 1:A:21:SER:HG   | 20       | 4.18          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 2        | 4.18          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 4        | 4.18          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3  | 18       | 4.18          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3  | 18       | 4.18          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3  | 18       | 4.18          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2  | 6        | 4.18          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2  | 6        | 4.18          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2  | 6        | 4.18          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H    | 5        | 4.18          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3  | 2        | 4.18          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3  | 3        | 4.18          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3  | 4        | 4.18          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H    | 11       | 4.18          |
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG   | 1        | 4.18          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2  | 5        | 4.18          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2  | 6        | 4.18          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2  | 14       | 4.18          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2  | 14       | 4.18          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3  | 14       | 4.18          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3  | 14       | 4.18          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H    | 3        | 4.18          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H    | 4        | 4.18          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H    | 8        | 4.18          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H    | 10       | 4.18          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H    | 1        | 4.18          |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H    | 3        | 4.18          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H    | 2        | 4.18          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H    | 6        | 4.18          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H    | 7        | 4.18          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H    | 16       | 4.18          |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE1  | 4        | 4.18          |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE2  | 4        | 4.18          |
| (1,1440) | 1:A:5:GLY:H     | 1:A:26:CYS:HA   | 16       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD11 | 20       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD12 | 20       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD13 | 20       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD21 | 20       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD22 | 20       | 4.18          |
| (1,1071) | 1:A:4:ASN:H     | 1:A:18:LEU:HD23 | 20       | 4.18          |
| (1,1004) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HZ2  | 20       | 4.18          |
| (1,897)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HB3  | 9        | 4.17          |
| (1,897)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HB3  | 9        | 4.17          |
| (1,835)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HE21  | 19       | 4.17          |
| (1,614)  | 1:A:2:GLY:H     | 1:A:13:GLY:H    | 4        | 4.17          |
| (1,529)  | 1:A:1:SER:HA    | 1:A:26:CYS:H    | 10       | 4.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 19       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 20       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 20       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 20       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 20       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 20       | 4.17          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 20       | 4.17          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 15       | 4.17          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 16       | 4.17          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 16       | 4.17          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1  | 7        | 4.17          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2  | 7        | 4.17          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 10       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 10       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 16       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 16       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 18       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 18       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 20       | 4.17          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 20       | 4.17          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1  | 1        | 4.17          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2  | 1        | 4.17          |
| (1,4688) | 1:A:27:GLY:H   | 1:A:33:CYS:HB2  | 8        | 4.17          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB2  | 19       | 4.17          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB2  | 19       | 4.17          |
| (1,4574) | 1:A:25:TYR:HD1 | 1:A:32:TYR:HB3  | 19       | 4.17          |
| (1,4574) | 1:A:25:TYR:HD2 | 1:A:32:TYR:HB3  | 19       | 4.17          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2  | 5        | 4.17          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3  | 5        | 4.17          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA2  | 2        | 4.17          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA3  | 2        | 4.17          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA2  | 17       | 4.17          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA3  | 17       | 4.17          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 3        | 4.17          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 3        | 4.17          |
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE1  | 5        | 4.17          |
| (1,4224) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HE2  | 5        | 4.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 16       | 4.17          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 18       | 4.17          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 6        | 4.17          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 15       | 4.17          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 15       | 4.17          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 20       | 4.17          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 6        | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 7        | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 9        | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 16       | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 18       | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 19       | 4.17          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 20       | 4.17          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 4        | 4.17          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 5        | 4.17          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 1        | 4.17          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 11       | 4.17          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 12       | 4.17          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 17       | 4.17          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 17       | 4.17          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 17       | 4.17          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 6        | 4.17          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 6        | 4.17          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 6        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 9        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 9        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 9        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 9        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 9        | 4.17          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 9        | 4.17          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 10       | 4.17          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 10       | 4.17          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 10       | 4.17          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 3        | 4.17          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 3        | 4.17          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 3        | 4.17          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 6        | 4.17          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 7        | 4.17          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 7        | 4.17          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 3        | 4.17          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 8        | 4.17          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 13       | 4.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3247) | 1:A:14:CYS:HB3 | 1:A:28:SER:HB3  | 1        | 4.17          |
| (1,3246) | 1:A:14:CYS:HB3 | 1:A:28:SER:H    | 15       | 4.17          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H    | 15       | 4.17          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H    | 17       | 4.17          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB2  | 17       | 4.17          |
| (1,2998) | 1:A:12:GLY:H   | 1:A:20:CYS:HB3  | 17       | 4.17          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2  | 3        | 4.17          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1  | 17       | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 2        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 2        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 4        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 4        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 5        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 5        | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 10       | 4.17          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 10       | 4.17          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 2        | 4.17          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 6        | 4.17          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 11       | 4.17          |
| (1,1942) | 1:A:7:CYS:H    | 1:A:20:CYS:H    | 13       | 4.17          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 2        | 4.17          |
| (1,1721) | 1:A:6:GLN:HG2  | 1:A:25:TYR:H    | 4        | 4.17          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 4        | 4.17          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 5        | 4.17          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 6        | 4.17          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 10       | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2   | 1        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3   | 1        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2   | 4        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3   | 4        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2   | 9        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3   | 9        | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2   | 15       | 4.17          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3   | 15       | 4.17          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3  | 4        | 4.17          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3  | 8        | 4.17          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 4        | 4.17          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 10       | 4.17          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA   | 19       | 4.17          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD11 | 7        | 4.17          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD12 | 7        | 4.17          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD13 | 7        | 4.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD21 | 7        | 4.17          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD22 | 7        | 4.17          |
| (1,1071) | 1:A:4:ASN:H    | 1:A:18:LEU:HD23 | 7        | 4.17          |
| (1,1004) | 1:A:3:PRO:HD3  | 1:A:11:TRP:HZ2  | 19       | 4.17          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21  | 18       | 4.16          |
| (1,779)  | 1:A:3:PRO:HB2  | 1:A:11:TRP:HZ3  | 9        | 4.16          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 18       | 4.16          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 18       | 4.16          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 19       | 4.16          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 19       | 4.16          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 9        | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 7        | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 7        | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 7        | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 7        | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 10       | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 10       | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 10       | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 10       | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21  | 16       | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21  | 16       | 4.16          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22  | 16       | 4.16          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22  | 16       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 15       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 15       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 15       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 15       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 15       | 4.16          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 15       | 4.16          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1  | 11       | 4.16          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 1        | 4.16          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 7        | 4.16          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 7        | 4.16          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 7        | 4.16          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 15       | 4.16          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 15       | 4.16          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 2        | 4.16          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 2        | 4.16          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 4        | 4.16          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 4        | 4.16          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA   | 14       | 4.16          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA   | 14       | 4.16          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA  | 19       | 4.16          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA  | 19       | 4.16          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 5        | 4.16          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 9        | 4.16          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 14       | 4.16          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ1 | 6        | 4.16          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ2 | 6        | 4.16          |
| (1,4701) | 1:A:27:GLY:HA2  | 1:A:31:LYS:HZ3 | 6        | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 10       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 10       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 10       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 10       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 18       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 18       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 18       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 18       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 20       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 20       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 20       | 4.16          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 20       | 4.16          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA  | 3        | 4.16          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 6        | 4.16          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 6        | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 8        | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 8        | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 13       | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 13       | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 17       | 4.16          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 17       | 4.16          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 4        | 4.16          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 4        | 4.16          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 6        | 4.16          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 6        | 4.16          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 11       | 4.16          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 8        | 4.16          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 3        | 4.16          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H   | 6        | 4.16          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 9        | 4.16          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 6        | 4.16          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 6        | 4.16          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 6        | 4.16          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 7        | 4.16          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3396) | 1:A:15:ARG:HD3 | 1:A:19:CYS:H    | 7        | 4.16          |
| (1,3246) | 1:A:14:CYS:HB3 | 1:A:28:SER:H    | 20       | 4.16          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2  | 19       | 4.16          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3  | 19       | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 7        | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 8        | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 9        | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 16       | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 18       | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 19       | 4.16          |
| (1,2984) | 1:A:12:GLY:H   | 1:A:14:CYS:H    | 20       | 4.16          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1  | 2        | 4.16          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1  | 5        | 4.16          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1  | 10       | 4.16          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 5        | 4.16          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 18       | 4.16          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H    | 20       | 4.16          |
| (1,1763) | 1:A:6:GLN:HG3  | 1:A:24:GLY:H    | 10       | 4.16          |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA   | 2        | 4.16          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2   | 13       | 4.16          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3   | 13       | 4.16          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 2        | 4.16          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 3        | 4.16          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2  | 5        | 4.16          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG2  | 14       | 4.16          |
| (1,1477) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HG3  | 14       | 4.16          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 13       | 4.15          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H    | 3        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 1        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD13 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD21 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD22 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD23 | 7        | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD11 | 13       | 4.15          |
| (1,520)  | 1:A:1:SER:HA   | 1:A:18:LEU:HD12 | 13       | 4.15          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 13       | 4.15          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 13       | 4.15          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 13       | 4.15          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 13       | 4.15          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG2  | 11       | 4.15          |
| (1,515)  | 1:A:1:SER:HA    | 1:A:15:ARG:HG3  | 11       | 4.15          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H    | 13       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 3        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 3        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 5        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 5        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 6        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 6        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 7        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 7        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 8        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 8        | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 12       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 12       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 13       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 13       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG2  | 1:A:32:TYR:HA   | 15       | 4.15          |
| (1,4822) | 1:A:30:PRO:HG3  | 1:A:32:TYR:HA   | 15       | 4.15          |
| (1,4804) | 1:A:30:PRO:HB2  | 1:A:33:CYS:HA   | 10       | 4.15          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1  | 9        | 4.15          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2  | 9        | 4.15          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2  | 5        | 4.15          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 5        | 4.15          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 5        | 4.15          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 5        | 4.15          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 10       | 4.15          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2  | 7        | 4.15          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3  | 7        | 4.15          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB2  | 15       | 4.15          |
| (1,4328) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HB3  | 15       | 4.15          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1  | 7        | 4.15          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2  | 7        | 4.15          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 16       | 4.15          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 16       | 4.15          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2  | 17       | 4.15          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA   | 14       | 4.15          |
| (1,3911) | 1:A:20:CYS:H    | 1:A:22:GLN:H    | 17       | 4.15          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 6        | 4.15          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 5        | 4.15          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 5        | 4.15          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 5        | 4.15          |
| (1,3763) | 1:A:18:LEU:HD11 | 1:A:20:CYS:HB2 | 1        | 4.15          |
| (1,3763) | 1:A:18:LEU:HD12 | 1:A:20:CYS:HB2 | 1        | 4.15          |
| (1,3763) | 1:A:18:LEU:HD13 | 1:A:20:CYS:HB2 | 1        | 4.15          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 1        | 4.15          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 8        | 4.15          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 15       | 4.15          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 7        | 4.15          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 7        | 4.15          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 16       | 4.15          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 7        | 4.15          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 12       | 4.15          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 18       | 4.15          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 19       | 4.15          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 13       | 4.15          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 1        | 4.15          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 12       | 4.15          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 4        | 4.15          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 6        | 4.15          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 3        | 4.15          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 3        | 4.15          |
| (1,1997) | 1:A:7:CYS:HB2   | 1:A:22:GLN:H   | 17       | 4.15          |
| (1,1997) | 1:A:7:CYS:HB3   | 1:A:22:GLN:H   | 17       | 4.15          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H   | 9        | 4.15          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H   | 19       | 4.15          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 15       | 4.15          |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H   | 5        | 4.15          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 11       | 4.15          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 13       | 4.15          |
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 3        | 4.15          |
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 11       | 4.15          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 5        | 4.15          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB2 | 13       | 4.15          |
| (1,1476) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HB3 | 13       | 4.15          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 17       | 4.15          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 1        | 4.15          |
| (1,1004) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HZ2 | 18       | 4.15          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE1 | 7        | 4.14          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE2 | 7        | 4.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 14       | 4.14          |
| (1,835)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HE21 | 20       | 4.14          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 4        | 4.14          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 4        | 4.14          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 3        | 4.14          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 3        | 4.14          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 3        | 4.14          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 3        | 4.14          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 12       | 4.14          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 12       | 4.14          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 12       | 4.14          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 12       | 4.14          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 8        | 4.14          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 8        | 4.14          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 13       | 4.14          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 13       | 4.14          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 15       | 4.14          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 15       | 4.14          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA  | 1        | 4.14          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA  | 1        | 4.14          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA  | 9        | 4.14          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA  | 9        | 4.14          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA  | 11       | 4.14          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA  | 11       | 4.14          |
| (1,4822) | 1:A:30:PRO:HG2 | 1:A:32:TYR:HA  | 17       | 4.14          |
| (1,4822) | 1:A:30:PRO:HG3 | 1:A:32:TYR:HA  | 17       | 4.14          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 14       | 4.14          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 14       | 4.14          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 10       | 4.14          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 16       | 4.14          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD2 | 6        | 4.14          |
| (1,4729) | 1:A:28:SER:H   | 1:A:31:LYS:HD3 | 6        | 4.14          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 6        | 4.14          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 9        | 4.14          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 9        | 4.14          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 15       | 4.14          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 15       | 4.14          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 13       | 4.14          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 13       | 4.14          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 13       | 4.14          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 13       | 4.14          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2 | 9        | 4.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 9        | 4.14          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 9        | 4.14          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 9        | 4.14          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 10       | 4.14          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 10       | 4.14          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 14       | 4.14          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 3        | 4.14          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 17       | 4.14          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 18       | 4.14          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 12       | 4.14          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 15       | 4.14          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 7        | 4.14          |
| (1,3860) | 1:A:19:CYS:HA   | 1:A:28:SER:H   | 17       | 4.14          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 3        | 4.14          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 5        | 4.14          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 10       | 4.14          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 10       | 4.14          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 10       | 4.14          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 17       | 4.14          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 17       | 4.14          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 17       | 4.14          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 1        | 4.14          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 1        | 4.14          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 11       | 4.14          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 11       | 4.14          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 11       | 4.14          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 15       | 4.14          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 3        | 4.14          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 13       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 18       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 18       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 18       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 18       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 19       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 19       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 19       | 4.14          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 19       | 4.14          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 12       | 4.14          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 18       | 4.14          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 1        | 4.14          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 3        | 4.14          |
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 1        | 4.14          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA  | 15       | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 2        | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 2        | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 3        | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 3        | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 10       | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 10       | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 12       | 4.14          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 12       | 4.14          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3 | 2        | 4.14          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3 | 10       | 4.14          |
| (1,1529) | 1:A:6:GLN:H    | 1:A:24:GLY:HA2 | 6        | 4.14          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 16       | 4.14          |
| (1,1482) | 1:A:5:GLY:HA3  | 1:A:19:CYS:H   | 18       | 4.14          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB2 | 15       | 4.14          |
| (1,1476) | 1:A:5:GLY:HA3  | 1:A:15:ARG:HB3 | 15       | 4.14          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 3        | 4.14          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 13       | 4.14          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 15       | 4.14          |
| (1,1440) | 1:A:5:GLY:H    | 1:A:26:CYS:HA  | 7        | 4.14          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2 | 11       | 4.14          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 6        | 4.13          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 10       | 4.13          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 11       | 4.13          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 11       | 4.13          |
| (1,529)  | 1:A:1:SER:HA   | 1:A:26:CYS:H   | 5        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 2        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 2        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 4        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 4        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 7        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 7        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 8        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 8        | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 12       | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 12       | 4.13          |
| (1,4931) | 1:A:32:TYR:HE1 | 1:A:34:ALA:H   | 14       | 4.13          |
| (1,4931) | 1:A:32:TYR:HE2 | 1:A:34:ALA:H   | 14       | 4.13          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H   | 7        | 4.13          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H   | 7        | 4.13          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H   | 7        | 4.13          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 16       | 4.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4826) | 1:A:30:PRO:HG3  | 1:A:34:ALA:HA  | 16       | 4.13          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 18       | 4.13          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 19       | 4.13          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 20       | 4.13          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2 | 12       | 4.13          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2 | 2        | 4.13          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2 | 2        | 4.13          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3 | 2        | 4.13          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3 | 2        | 4.13          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 17       | 4.13          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 17       | 4.13          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 10       | 4.13          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 10       | 4.13          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 9        | 4.13          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 9        | 4.13          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 7        | 4.13          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 7        | 4.13          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 3        | 4.13          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 3        | 4.13          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 7        | 4.13          |
| (1,4049) | 1:A:21:SER:HB2  | 1:A:28:SER:H   | 12       | 4.13          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 11       | 4.13          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 13       | 4.13          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 13       | 4.13          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 13       | 4.13          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 8        | 4.13          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 8        | 4.13          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 12       | 4.13          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 12       | 4.13          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 20       | 4.13          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 8        | 4.13          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 11       | 4.13          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 12       | 4.13          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 14       | 4.13          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 7        | 4.13          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 7        | 4.13          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 7        | 4.13          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 7        | 4.13          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 11       | 4.13          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 11       | 4.13          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 11       | 4.13          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 11       | 4.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H   | 7        | 4.13          |
| (1,1952) | 1:A:7:CYS:H     | 1:A:23:TYR:H   | 16       | 4.13          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 7        | 4.13          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 8        | 4.13          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 16       | 4.13          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 19       | 4.13          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 4        | 4.13          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 4        | 4.13          |
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 14       | 4.13          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 17       | 4.13          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 17       | 4.13          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 7        | 4.13          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 17       | 4.13          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 17       | 4.13          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 4        | 4.13          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 15       | 4.13          |
| (1,1130) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ3 | 20       | 4.13          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 17       | 4.13          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 17       | 4.13          |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 11       | 4.12          |
| (1,530)  | 1:A:1:SER:HA    | 1:A:26:CYS:HB2 | 11       | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 9        | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 9        | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 9        | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 9        | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 9        | 4.12          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 9        | 4.12          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2 | 13       | 4.12          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3 | 13       | 4.12          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 19       | 4.12          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 15       | 4.12          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 15       | 4.12          |
| (1,4688) | 1:A:27:GLY:H    | 1:A:33:CYS:HB2 | 14       | 4.12          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 5        | 4.12          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 5        | 4.12          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 1        | 4.12          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 1        | 4.12          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 11       | 4.12          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 11       | 4.12          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 17       | 4.12          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 17       | 4.12          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 16       | 4.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 16       | 4.12          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 7        | 4.12          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 9        | 4.12          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 1        | 4.12          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 1        | 4.12          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 15       | 4.12          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 15       | 4.12          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 15       | 4.12          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 6        | 4.12          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 13       | 4.12          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 13       | 4.12          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 1        | 4.12          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 13       | 4.12          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 13       | 4.12          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 20       | 4.12          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3 | 7        | 4.12          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 18       | 4.12          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 1        | 4.12          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 11       | 4.12          |
| (1,2984) | 1:A:12:GLY:H    | 1:A:14:CYS:H   | 13       | 4.12          |
| (1,2658) | 1:A:11:TRP:HB2  | 1:A:24:GLY:HA2 | 14       | 4.12          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 1        | 4.12          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 13       | 4.12          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 9        | 4.12          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 9        | 4.12          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 9        | 4.12          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 9        | 4.12          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 9        | 4.12          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 18       | 4.12          |
| (1,1942) | 1:A:7:CYS:H     | 1:A:20:CYS:H   | 20       | 4.12          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 6        | 4.12          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 6        | 4.12          |
| (1,1763) | 1:A:6:GLN:HG3   | 1:A:24:GLY:H   | 6        | 4.12          |
| (1,1721) | 1:A:6:GLN:HG2   | 1:A:25:TYR:H   | 15       | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 6        | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 6        | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 8        | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 8        | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 14       | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 14       | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 16       | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3  | 16       | 4.12          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2   | 20       | 4.12          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA3   | 20       | 4.12          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3  | 13       | 4.12          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1  | 1        | 4.12          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 19       | 4.12          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H    | 20       | 4.12          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21  | 1        | 4.12          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2   | 19       | 4.12          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3   | 19       | 4.12          |
| (1,1004) | 1:A:3:PRO:HD3   | 1:A:11:TRP:HZ2  | 9        | 4.12          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2   | 4        | 4.11          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3   | 4        | 4.11          |
| (1,614)  | 1:A:2:GLY:H     | 1:A:13:GLY:H    | 11       | 4.11          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 8        | 4.11          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 8        | 4.11          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 8        | 4.11          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 8        | 4.11          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 8        | 4.11          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 8        | 4.11          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2   | 15       | 4.11          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3   | 15       | 4.11          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2   | 15       | 4.11          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3   | 15       | 4.11          |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3  | 8        | 4.11          |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3  | 3        | 4.11          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H    | 18       | 4.11          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H    | 18       | 4.11          |
| (1,4804) | 1:A:30:PRO:HB2  | 1:A:33:CYS:HA   | 16       | 4.11          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 8        | 4.11          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 12       | 4.11          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 14       | 4.11          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2  | 20       | 4.11          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB2  | 16       | 4.11          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB2  | 16       | 4.11          |
| (1,4574) | 1:A:25:TYR:HD1  | 1:A:32:TYR:HB3  | 16       | 4.11          |
| (1,4574) | 1:A:25:TYR:HD2  | 1:A:32:TYR:HB3  | 16       | 4.11          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1  | 4        | 4.11          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2  | 4        | 4.11          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2  | 10       | 4.11          |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3  | 10       | 4.11          |
| (1,4335) | 1:A:22:GLN:HE22 | 1:A:35:HIS:H    | 1        | 4.11          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 2        | 4.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 8        | 4.11          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 8        | 4.11          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 2        | 4.11          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 2        | 4.11          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE1 | 10       | 4.11          |
| (1,4108) | 1:A:22:GLN:H    | 1:A:25:TYR:HE2 | 10       | 4.11          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 18       | 4.11          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 2        | 4.11          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 5        | 4.11          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 10       | 4.11          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 5        | 4.11          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 14       | 4.11          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 8        | 4.11          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 8        | 4.11          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 8        | 4.11          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 1        | 4.11          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 1        | 4.11          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 1        | 4.11          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H   | 10       | 4.11          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H   | 10       | 4.11          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H   | 10       | 4.11          |
| (1,3766) | 1:A:18:LEU:HD11 | 1:A:21:SER:HG  | 14       | 4.11          |
| (1,3766) | 1:A:18:LEU:HD12 | 1:A:21:SER:HG  | 14       | 4.11          |
| (1,3766) | 1:A:18:LEU:HD13 | 1:A:21:SER:HG  | 14       | 4.11          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 11       | 4.11          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 5        | 4.11          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA  | 14       | 4.11          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA  | 14       | 4.11          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 1        | 4.11          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 9        | 4.11          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 7        | 4.11          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 13       | 4.11          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 19       | 4.11          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 13       | 4.11          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 13       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 7        | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 8        | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 9        | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 11       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 12       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 14       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2   | 1:A:12:GLY:H   | 15       | 4.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 16       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 18       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 19       | 4.11          |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 20       | 4.11          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 9        | 4.11          |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 20       | 4.11          |
| (1,1952) | 1:A:7:CYS:H    | 1:A:23:TYR:H   | 14       | 4.11          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 3        | 4.11          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 5        | 4.11          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 5        | 4.11          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 7        | 4.11          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 7        | 4.11          |
| (1,1568) | 1:A:6:GLN:HA   | 1:A:23:TYR:HB3 | 9        | 4.11          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 7        | 4.11          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 18       | 4.11          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 19       | 4.11          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 20       | 4.11          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 8        | 4.11          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 8        | 4.11          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 18       | 4.11          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 18       | 4.11          |
| (1,1132) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HH2 | 17       | 4.11          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 20       | 4.11          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 15       | 4.1           |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 4        | 4.1           |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 4        | 4.1           |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 4        | 4.1           |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 4        | 4.1           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 18       | 4.1           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 18       | 4.1           |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 18       | 4.1           |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 18       | 4.1           |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 13       | 4.1           |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 11       | 4.1           |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 20       | 4.1           |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 20       | 4.1           |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 4        | 4.1           |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 4        | 4.1           |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 18       | 4.1           |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 19       | 4.1           |
| (1,4800) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HA  | 2        | 4.1           |
| (1,4800) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HA  | 4        | 4.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 13       | 4.1           |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 15       | 4.1           |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 6        | 4.1           |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 6        | 4.1           |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 2        | 4.1           |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 2        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 3        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 3        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 4        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 4        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 6        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 6        | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB2 | 12       | 4.1           |
| (1,4456) | 1:A:24:GLY:H    | 1:A:32:TYR:HB3 | 12       | 4.1           |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 15       | 4.1           |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 15       | 4.1           |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 12       | 4.1           |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 7        | 4.1           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 11       | 4.1           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 11       | 4.1           |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 1        | 4.1           |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 1        | 4.1           |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE1 | 14       | 4.1           |
| (1,4018) | 1:A:21:SER:H    | 1:A:23:TYR:HE2 | 14       | 4.1           |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 4        | 4.1           |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 6        | 4.1           |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 17       | 4.1           |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 16       | 4.1           |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 12       | 4.1           |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 20       | 4.1           |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 5        | 4.1           |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 5        | 4.1           |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 5        | 4.1           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 13       | 4.1           |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 13       | 4.1           |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 5        | 4.1           |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 6        | 4.1           |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 17       | 4.1           |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 11       | 4.1           |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 18       | 4.1           |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 19       | 4.1           |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 16       | 4.1           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 1        | 4.1           |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 1        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 2        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 3        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 4        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 5        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 6        | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 10       | 4.1           |
| (1,2301) | 1:A:9:PRO:HG2  | 1:A:12:GLY:H   | 17       | 4.1           |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 7        | 4.1           |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 8        | 4.1           |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 12       | 4.1           |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 14       | 4.1           |
| (1,2250) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HE1 | 19       | 4.1           |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 12       | 4.1           |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 12       | 4.1           |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 12       | 4.1           |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 12       | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 2        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 2        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 4        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 4        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 5        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 5        | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 10       | 4.1           |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 10       | 4.1           |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 5        | 4.1           |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 6        | 4.1           |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 17       | 4.1           |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 17       | 4.1           |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 19       | 4.09          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H   | 8        | 4.09          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H   | 8        | 4.09          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 20       | 4.09          |
| (1,4804) | 1:A:30:PRO:HB2 | 1:A:33:CYS:HA  | 20       | 4.09          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 9        | 4.09          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 9        | 4.09          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 9        | 4.09          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 14       | 4.09          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 14       | 4.09          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 14       | 4.09          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 14       | 4.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 1        | 4.09          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 1        | 4.09          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 11       | 4.09          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 11       | 4.09          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 15       | 4.09          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 17       | 4.09          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 17       | 4.09          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 7        | 4.09          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 13       | 4.09          |
| (1,3952) | 1:A:20:CYS:HB2  | 1:A:22:GLN:HA  | 3        | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 2        | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 3        | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 6        | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 7        | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 10       | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 13       | 4.09          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 19       | 4.09          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 18       | 4.09          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 19       | 4.09          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 5        | 4.09          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 5        | 4.09          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 5        | 4.09          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 9        | 4.09          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 9        | 4.09          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 9        | 4.09          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 5        | 4.09          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 5        | 4.09          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 9        | 4.09          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 9        | 4.09          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 2        | 4.09          |
| (1,3676) | 1:A:18:LEU:HB2  | 1:A:21:SER:H   | 14       | 4.09          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 15       | 4.09          |
| (1,3246) | 1:A:14:CYS:HB3  | 1:A:28:SER:H   | 11       | 4.09          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 4        | 4.09          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 4        | 4.09          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 16       | 4.09          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 18       | 4.09          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 20       | 4.09          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 20       | 4.09          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 20       | 4.09          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 20       | 4.09          |
| (1,1696) | 1:A:6:GLN:HG2   | 1:A:8:GLY:HA2  | 18       | 4.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 18       | 4.09          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA2  | 19       | 4.09          |
| (1,1696) | 1:A:6:GLN:HG2  | 1:A:8:GLY:HA3  | 19       | 4.09          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 11       | 4.09          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 8        | 4.09          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 16       | 4.09          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3 | 1        | 4.09          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 3        | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 6        | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 6        | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 10       | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 10       | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 12       | 4.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 12       | 4.09          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 10       | 4.09          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 1        | 4.08          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 13       | 4.08          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 14       | 4.08          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 14       | 4.08          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE1 | 14       | 4.08          |
| (1,645)  | 1:A:2:GLY:H    | 1:A:25:TYR:HE2 | 14       | 4.08          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 11       | 4.08          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 11       | 4.08          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H   | 5        | 4.08          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 20       | 4.08          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA  | 1        | 4.08          |
| (1,4800) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HA  | 6        | 4.08          |
| (1,4800) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HA  | 9        | 4.08          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 10       | 4.08          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 10       | 4.08          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 10       | 4.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 1        | 4.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 1        | 4.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 5        | 4.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 5        | 4.08          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 8        | 4.08          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 8        | 4.08          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 12       | 4.08          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 12       | 4.08          |
| (1,4479) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HD1 | 12       | 4.08          |
| (1,4479) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HD2 | 12       | 4.08          |
| (1,4479) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HD1 | 13       | 4.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 13       | 4.08          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 14       | 4.08          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 14       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 5        | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 5        | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 5        | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 5        | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 10       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 10       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 10       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 10       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 11       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 11       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 11       | 4.08          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 11       | 4.08          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 11       | 4.08          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 11       | 4.08          |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1 | 11       | 4.08          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 17       | 4.08          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 20       | 4.08          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 9        | 4.08          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 9        | 4.08          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 9        | 4.08          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 18       | 4.08          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 19       | 4.08          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 20       | 4.08          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 19       | 4.08          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 8        | 4.08          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 6        | 4.08          |
| (1,3948) | 1:A:20:CYS:H    | 1:A:35:HIS:HB2 | 1        | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 1        | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 4        | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 9        | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 11       | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 14       | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 15       | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 18       | 4.08          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 20       | 4.08          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 7        | 4.08          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 7        | 4.08          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 7        | 4.08          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 12       | 4.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 12       | 4.08          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 12       | 4.08          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 12       | 4.08          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 12       | 4.08          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 12       | 4.08          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 12       | 4.08          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 12       | 4.08          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 12       | 4.08          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 4        | 4.08          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 16       | 4.08          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 16       | 4.08          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 11       | 4.08          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 7        | 4.08          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1 | 15       | 4.08          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 17       | 4.08          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 17       | 4.08          |
| (1,1998) | 1:A:7:CYS:HB2   | 1:A:22:GLN:HA  | 17       | 4.08          |
| (1,1998) | 1:A:7:CYS:HB3   | 1:A:22:GLN:HA  | 17       | 4.08          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 17       | 4.08          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 17       | 4.08          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 2        | 4.08          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 2        | 4.08          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 10       | 4.08          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 10       | 4.08          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 14       | 4.08          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 3        | 4.08          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 12       | 4.08          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 18       | 4.08          |
| (1,1482) | 1:A:5:GLY:HA3   | 1:A:19:CYS:H   | 7        | 4.08          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 9        | 4.08          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 14       | 4.08          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 15       | 4.08          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21 | 2        | 4.08          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21 | 10       | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 5        | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 5        | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 7        | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 7        | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 13       | 4.08          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 13       | 4.08          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 8        | 4.08          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 11       | 4.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 12       | 4.08          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H    | 10       | 4.08          |
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE1 | 14       | 4.07          |
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE2 | 14       | 4.07          |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE1 | 14       | 4.07          |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE2 | 14       | 4.07          |
| (1,843)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ3 | 5        | 4.07          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB2  | 14       | 4.07          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB3  | 14       | 4.07          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2  | 14       | 4.07          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3  | 14       | 4.07          |
| (1,614)  | 1:A:2:GLY:H     | 1:A:13:GLY:H   | 6        | 4.07          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 2        | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 1        | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 3        | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 5        | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 7        | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 10       | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 11       | 4.07          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 17       | 4.07          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 15       | 4.07          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 12       | 4.07          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 7        | 4.07          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 7        | 4.07          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 15       | 4.07          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 15       | 4.07          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 12       | 4.07          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 12       | 4.07          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 12       | 4.07          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 12       | 4.07          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 1        | 4.07          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 1        | 4.07          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 16       | 4.07          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 16       | 4.07          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 19       | 4.07          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 19       | 4.07          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 4        | 4.07          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 8        | 4.07          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 9        | 4.07          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 13       | 4.07          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 18       | 4.07          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 19       | 4.07          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1  | 8        | 4.07          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2  | 8        | 4.07          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1  | 13       | 4.07          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2  | 13       | 4.07          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1  | 19       | 4.07          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2  | 19       | 4.07          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA   | 16       | 4.07          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 10       | 4.07          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 10       | 4.07          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 6        | 4.07          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 6        | 4.07          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA   | 3        | 4.07          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H    | 8        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1  | 3        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2  | 3        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1  | 3        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2  | 3        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1  | 3        | 4.07          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2  | 3        | 4.07          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 15       | 4.07          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 15       | 4.07          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H    | 12       | 4.07          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H    | 7        | 4.07          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H    | 18       | 4.07          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H    | 19       | 4.07          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 1        | 4.07          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 1        | 4.07          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2  | 16       | 4.07          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3  | 16       | 4.07          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 20       | 4.07          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 20       | 4.07          |
| (1,3258) | 1:A:15:ARG:H    | 1:A:19:CYS:HB3  | 16       | 4.07          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 20       | 4.07          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 8        | 4.07          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 12       | 4.07          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 18       | 4.07          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 19       | 4.07          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 20       | 4.07          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1  | 1        | 4.07          |
| (1,2250) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HE1  | 11       | 4.07          |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE1  | 17       | 4.07          |
| (1,2016) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HE2  | 17       | 4.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE1 | 17       | 4.07          |
| (1,2016) | 1:A:7:CYS:HB3  | 1:A:32:TYR:HE2 | 17       | 4.07          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2 | 8        | 4.07          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2 | 8        | 4.07          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3 | 8        | 4.07          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 8        | 4.07          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 3        | 4.07          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 3        | 4.07          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 2        | 4.07          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 5        | 4.07          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 19       | 4.07          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 7        | 4.07          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 15       | 4.07          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1 | 19       | 4.07          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 2        | 4.07          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 5        | 4.07          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 6        | 4.07          |
| (1,1465) | 1:A:5:GLY:HA3  | 1:A:6:GLN:HE21 | 12       | 4.07          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 2        | 4.07          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 2        | 4.07          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 16       | 4.07          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 16       | 4.07          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 5        | 4.07          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 1        | 4.07          |
| (1,841)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HE3 | 9        | 4.06          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3 | 12       | 4.06          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 14       | 4.06          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 18       | 4.06          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 18       | 4.06          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 18       | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 2        | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 2        | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 4        | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 4        | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 13       | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 13       | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 15       | 4.06          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 15       | 4.06          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 3        | 4.06          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 6        | 4.06          |
| (1,4479) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HD1 | 8        | 4.06          |
| (1,4479) | 1:A:24:GLY:HA2 | 1:A:32:TYR:HD2 | 8        | 4.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD1 | 9        | 4.06          |
| (1,4479) | 1:A:24:GLY:HA2  | 1:A:32:TYR:HD2 | 9        | 4.06          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 1        | 4.06          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 1        | 4.06          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 1        | 4.06          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 1        | 4.06          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 18       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 18       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 18       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 18       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 19       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 19       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 19       | 4.06          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 19       | 4.06          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 1        | 4.06          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 1        | 4.06          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 16       | 4.06          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 16       | 4.06          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 13       | 4.06          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 13       | 4.06          |
| (1,4326) | 1:A:22:GLN:HE22 | 1:A:32:TYR:H   | 15       | 4.06          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 10       | 4.06          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 2        | 4.06          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 7        | 4.06          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 11       | 4.06          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 12       | 4.06          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 1        | 4.06          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 8        | 4.06          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 11       | 4.06          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 15       | 4.06          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 19       | 4.06          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 19       | 4.06          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 7        | 4.06          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 7        | 4.06          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 5        | 4.06          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 10       | 4.06          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 13       | 4.06          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 13       | 4.06          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 13       | 4.06          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 4        | 4.06          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 4        | 4.06          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 4        | 4.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 4        | 4.06          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 4        | 4.06          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 4        | 4.06          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 3        | 4.06          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 3        | 4.06          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 20       | 4.06          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 2        | 4.06          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 2        | 4.06          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 7        | 4.06          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 4        | 4.06          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 3        | 4.06          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 3        | 4.06          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 10       | 4.06          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 11       | 4.06          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 8        | 4.06          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 12       | 4.06          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 16       | 4.06          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 18       | 4.06          |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE1 | 2        | 4.06          |
| (1,1496) | 1:A:5:GLY:HA3   | 1:A:32:TYR:HE2 | 2        | 4.06          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 11       | 4.06          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 11       | 4.06          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 11       | 4.06          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 11       | 4.06          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 6        | 4.06          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 17       | 4.06          |
| (1,835)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HE21 | 17       | 4.05          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 11       | 4.05          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1 | 16       | 4.05          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2 | 16       | 4.05          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1 | 20       | 4.05          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2 | 20       | 4.05          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1 | 13       | 4.05          |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3 | 16       | 4.05          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3 | 7        | 4.05          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 20       | 4.05          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3 | 20       | 4.05          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3 | 20       | 4.05          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 10       | 4.05          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 10       | 4.05          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE1 | 2        | 4.05          |
| (1,4224) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HE2 | 2        | 4.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 4        | 4.05          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 5        | 4.05          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 18       | 4.05          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 18       | 4.05          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 12       | 4.05          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 13       | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 9        | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 9        | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 12       | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 12       | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 14       | 4.05          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 14       | 4.05          |
| (1,3921) | 1:A:20:CYS:H    | 1:A:24:GLY:H   | 12       | 4.05          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3 | 16       | 4.05          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 2        | 4.05          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 2        | 4.05          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 2        | 4.05          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 8        | 4.05          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 8        | 4.05          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 8        | 4.05          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 12       | 4.05          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 12       | 4.05          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 1        | 4.05          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 2        | 4.05          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 3        | 4.05          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 4        | 4.05          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 15       | 4.05          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 9        | 4.05          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 12       | 4.05          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 15       | 4.05          |
| (1,3259) | 1:A:15:ARG:H    | 1:A:20:CYS:HB2 | 16       | 4.05          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA2 | 17       | 4.05          |
| (1,3010) | 1:A:12:GLY:H    | 1:A:24:GLY:HA3 | 17       | 4.05          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 16       | 4.05          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2 | 5        | 4.05          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3 | 5        | 4.05          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 3        | 4.05          |
| (1,1700) | 1:A:6:GLN:HG2   | 1:A:11:TRP:H   | 17       | 4.05          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 11       | 4.05          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 2        | 4.05          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 5        | 4.05          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 13       | 4.05          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 19       | 4.05          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H    | 17       | 4.05          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 9        | 4.05          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 9        | 4.05          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB2  | 3        | 4.04          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB3  | 3        | 4.04          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 4        | 4.04          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1 | 2        | 4.04          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 7        | 4.04          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H   | 7        | 4.04          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA  | 16       | 4.04          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1 | 18       | 4.04          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2 | 18       | 4.04          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3 | 18       | 4.04          |
| (1,4772) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HG2 | 6        | 4.04          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 9        | 4.04          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 5        | 4.04          |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 3        | 4.04          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA  | 5        | 4.04          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 5        | 4.04          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 5        | 4.04          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 5        | 4.04          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 5        | 4.04          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 5        | 4.04          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 5        | 4.04          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 6        | 4.04          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 5        | 4.04          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 1        | 4.04          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 20       | 4.04          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 17       | 4.04          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 6        | 4.04          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 3        | 4.04          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 3        | 4.04          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 14       | 4.04          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 14       | 4.04          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 20       | 4.04          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 20       | 4.04          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 14       | 4.04          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 8        | 4.04          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 8        | 4.04          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 3        | 4.04          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 3        | 4.04          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 3        | 4.04          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 6        | 4.04          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 6        | 4.04          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 6        | 4.04          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 8        | 4.04          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 8        | 4.04          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 8        | 4.04          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 16       | 4.04          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 16       | 4.04          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 16       | 4.04          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 14       | 4.04          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 14       | 4.04          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 14       | 4.04          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 2        | 4.04          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 2        | 4.04          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 2        | 4.04          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 5        | 4.04          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 5        | 4.04          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 5        | 4.04          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 8        | 4.04          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 8        | 4.04          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 1        | 4.04          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 17       | 4.04          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 10       | 4.04          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 8        | 4.04          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 16       | 4.04          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 5        | 4.04          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 5        | 4.04          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H   | 9        | 4.04          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H   | 9        | 4.04          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 14       | 4.04          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3 | 13       | 4.04          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 17       | 4.04          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 17       | 4.04          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3 | 15       | 4.04          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 5        | 4.04          |
| (1,1509) | 1:A:6:GLN:H     | 1:A:11:TRP:HE1 | 20       | 4.04          |
| (1,1465) | 1:A:5:GLY:HA3   | 1:A:6:GLN:HE21 | 10       | 4.04          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21 | 4        | 4.04          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 12       | 4.04          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 19       | 4.04          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 16       | 4.04          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA    | 18       | 4.04          |
| (1,1128) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE3  | 19       | 4.04          |
| (1,1123) | 1:A:4:ASN:HB2   | 1:A:7:CYS:H     | 10       | 4.04          |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3   | 9        | 4.03          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE1  | 12       | 4.03          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE2  | 12       | 4.03          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB2   | 2        | 4.03          |
| (1,834)  | 1:A:3:PRO:HB3   | 1:A:6:GLN:HB3   | 2        | 4.03          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2   | 3        | 4.03          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3   | 3        | 4.03          |
| (1,574)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HB3  | 10       | 4.03          |
| (1,574)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HB3  | 10       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 17       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 17       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 17       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 17       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 17       | 4.03          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 17       | 4.03          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 4        | 4.03          |
| (1,510)  | 1:A:1:SER:HA    | 1:A:10:GLY:HA3  | 7        | 4.03          |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3  | 17       | 4.03          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 18       | 4.03          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 19       | 4.03          |
| (1,4800) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HA   | 20       | 4.03          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 7        | 4.03          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA   | 1        | 4.03          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA   | 1        | 4.03          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2  | 13       | 4.03          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2  | 13       | 4.03          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3  | 13       | 4.03          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3  | 13       | 4.03          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 13       | 4.03          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 13       | 4.03          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 2        | 4.03          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1  | 16       | 4.03          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2  | 16       | 4.03          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA   | 17       | 4.03          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 12       | 4.03          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 12       | 4.03          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 1        | 4.03          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 1        | 4.03          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 11       | 4.03          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 11       | 4.03          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 15       | 4.03          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 15       | 4.03          |
| (1,3835) | 1:A:19:CYS:H    | 1:A:29:GLY:HA3  | 10       | 4.03          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 6        | 4.03          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 6        | 4.03          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 6        | 4.03          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 15       | 4.03          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 15       | 4.03          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 15       | 4.03          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H    | 3        | 4.03          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 6        | 4.03          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2  | 13       | 4.03          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 7        | 4.03          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3  | 7        | 4.03          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3  | 14       | 4.03          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 19       | 4.03          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 19       | 4.03          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H    | 18       | 4.03          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H    | 18       | 4.03          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 16       | 4.03          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 18       | 4.03          |
| (1,3247) | 1:A:14:CYS:HB3  | 1:A:28:SER:HB3  | 19       | 4.03          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2  | 5        | 4.03          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3  | 5        | 4.03          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 9        | 4.03          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3  | 1        | 4.03          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3  | 15       | 4.03          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA2  | 6        | 4.03          |
| (1,1831) | 1:A:6:GLN:HE21  | 1:A:24:GLY:HA3  | 6        | 4.03          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3  | 12       | 4.03          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3  | 20       | 4.03          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA    | 7        | 4.03          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H    | 1        | 4.02          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1  | 19       | 4.02          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2  | 19       | 4.02          |
| (1,614)  | 1:A:2:GLY:H     | 1:A:13:GLY:H    | 10       | 4.02          |
| (1,548)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE1  | 9        | 4.02          |
| (1,548)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE1  | 9        | 4.02          |
| (1,530)  | 1:A:1:SER:HA    | 1:A:26:CYS:HB2  | 3        | 4.02          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD11 | 11       | 4.02          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD12 | 11       | 4.02          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD13 | 11       | 4.02          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD21 | 11       | 4.02          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD22 | 11       | 4.02          |
| (1,520)  | 1:A:1:SER:HA    | 1:A:18:LEU:HD23 | 11       | 4.02          |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H    | 8        | 4.02          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1  | 5        | 4.02          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2  | 5        | 4.02          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H    | 17       | 4.02          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2  | 8        | 4.02          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3  | 8        | 4.02          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA   | 20       | 4.02          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA   | 20       | 4.02          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 4        | 4.02          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 4        | 4.02          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 19       | 4.02          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 19       | 4.02          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 15       | 4.02          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 15       | 4.02          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 3        | 4.02          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 3        | 4.02          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2  | 11       | 4.02          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3  | 11       | 4.02          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H    | 9        | 4.02          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 10       | 4.02          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 11       | 4.02          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3  | 14       | 4.02          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 3        | 4.02          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 3        | 4.02          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 6        | 4.02          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 6        | 4.02          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG   | 17       | 4.02          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG   | 17       | 4.02          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG   | 17       | 4.02          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 9        | 4.02          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 9        | 4.02          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 9        | 4.02          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 16       | 4.02          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 16       | 4.02          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 16       | 4.02          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 13       | 4.02          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2  | 11       | 4.02          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2  | 18       | 4.02          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3 | 18       | 4.02          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2 | 19       | 4.02          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3 | 19       | 4.02          |
| (1,3291) | 1:A:15:ARG:HB2 | 1:A:19:CYS:HA  | 13       | 4.02          |
| (1,3195) | 1:A:14:CYS:HB2 | 1:A:16:GLY:HA3 | 17       | 4.02          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 9        | 4.02          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 16       | 4.02          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 16       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 3        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 4        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 6        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 7        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 8        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 9        | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 11       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 12       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 14       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 16       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 18       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 19       | 4.02          |
| (1,2025) | 1:A:8:GLY:H    | 1:A:11:TRP:HE3 | 20       | 4.02          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 4        | 4.02          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 7        | 4.02          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 8        | 4.02          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 18       | 4.02          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 6        | 4.02          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 1        | 4.02          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 18       | 4.02          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 5        | 4.02          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 14       | 4.02          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 14       | 4.02          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 12       | 4.01          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 16       | 4.01          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 1        | 4.01          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H   | 2        | 4.01          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 15       | 4.01          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 2        | 4.01          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 2        | 4.01          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 16       | 4.01          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 3        | 4.01          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 3        | 4.01          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 6        | 4.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2 | 6        | 4.01          |
| (1,4829) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HB2 | 16       | 4.01          |
| (1,4829) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HB2 | 16       | 4.01          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 7        | 4.01          |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 7        | 4.01          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 18       | 4.01          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 18       | 4.01          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE2 | 18       | 4.01          |
| (1,4572) | 1:A:25:TYR:HD1  | 1:A:31:LYS:HE3 | 18       | 4.01          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE2 | 18       | 4.01          |
| (1,4572) | 1:A:25:TYR:HD2  | 1:A:31:LYS:HE3 | 18       | 4.01          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 15       | 4.01          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 15       | 4.01          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 3        | 4.01          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 19       | 4.01          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 19       | 4.01          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 2        | 4.01          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 4        | 4.01          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 4        | 4.01          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 3        | 4.01          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 4        | 4.01          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 6        | 4.01          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 13       | 4.01          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 11       | 4.01          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 11       | 4.01          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 11       | 4.01          |
| (1,3801) | 1:A:18:LEU:HD21 | 1:A:21:SER:HG  | 15       | 4.01          |
| (1,3801) | 1:A:18:LEU:HD22 | 1:A:21:SER:HG  | 15       | 4.01          |
| (1,3801) | 1:A:18:LEU:HD23 | 1:A:21:SER:HG  | 15       | 4.01          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 7        | 4.01          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 7        | 4.01          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 7        | 4.01          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 18       | 4.01          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 18       | 4.01          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 18       | 4.01          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 17       | 4.01          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 17       | 4.01          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 3        | 4.01          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3 | 2        | 4.01          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3 | 5        | 4.01          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3 | 10       | 4.01          |
| (1,2025) | 1:A:8:GLY:H     | 1:A:11:TRP:HE3 | 17       | 4.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 14       | 4.01          |
| (1,1701) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HA  | 13       | 4.01          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 19       | 4.01          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 3        | 4.01          |
| (1,1408) | 1:A:5:GLY:H     | 1:A:11:TRP:HZ3 | 16       | 4.01          |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 17       | 4.0           |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 20       | 4.0           |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 15       | 4.0           |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 3        | 4.0           |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 3        | 4.0           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 3        | 4.0           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 3        | 4.0           |
| (1,4925) | 1:A:32:TYR:HB2  | 1:A:35:HIS:HE1 | 12       | 4.0           |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2 | 4        | 4.0           |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3 | 4        | 4.0           |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 1        | 4.0           |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 9        | 4.0           |
| (1,4752) | 1:A:28:SER:HB3  | 1:A:32:TYR:H   | 11       | 4.0           |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB2 | 14       | 4.0           |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB2 | 14       | 4.0           |
| (1,4435) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HB3 | 14       | 4.0           |
| (1,4435) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HB3 | 14       | 4.0           |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 2        | 4.0           |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 7        | 4.0           |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 16       | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 2        | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 2        | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 5        | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 5        | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 10       | 4.0           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 10       | 4.0           |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 5        | 4.0           |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 3        | 4.0           |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 17       | 4.0           |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 17       | 4.0           |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 18       | 4.0           |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 2        | 4.0           |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 5        | 4.0           |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 8        | 4.0           |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 12       | 4.0           |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 12       | 4.0           |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 12       | 4.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 20       | 4.0           |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 20       | 4.0           |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 20       | 4.0           |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 12       | 4.0           |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 12       | 4.0           |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 12       | 4.0           |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 3        | 4.0           |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 3        | 4.0           |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 3        | 4.0           |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 4        | 4.0           |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 4        | 4.0           |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 4        | 4.0           |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 5        | 4.0           |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 6        | 4.0           |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 3        | 4.0           |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 6        | 4.0           |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 6        | 4.0           |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 6        | 4.0           |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 6        | 4.0           |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 6        | 4.0           |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 6        | 4.0           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 1        | 4.0           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 1        | 4.0           |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H    | 2        | 4.0           |
| (1,1123) | 1:A:4:ASN:HB2   | 1:A:7:CYS:H    | 6        | 4.0           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 12       | 4.0           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 12       | 4.0           |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 7        | 3.99          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2  | 2        | 3.99          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3  | 2        | 3.99          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 3        | 3.99          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 8        | 3.99          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 13       | 3.99          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H   | 20       | 3.99          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD21 | 15       | 3.99          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD21 | 15       | 3.99          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD22 | 15       | 3.99          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD22 | 15       | 3.99          |
| (1,4939) | 1:A:33:CYS:HB2  | 1:A:35:HIS:HE1 | 15       | 3.99          |
| (1,4939) | 1:A:33:CYS:HB3  | 1:A:35:HIS:HE1 | 15       | 3.99          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 12       | 3.99          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 12       | 3.99          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1 | 9        | 3.99          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2 | 9        | 3.99          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1 | 17       | 3.99          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2 | 17       | 3.99          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1 | 1        | 3.99          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2 | 1        | 3.99          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3 | 1        | 3.99          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2 | 2        | 3.99          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3 | 2        | 3.99          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 6        | 3.99          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 4        | 3.99          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 6        | 3.99          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 10       | 3.99          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB2 | 20       | 3.99          |
| (1,4100) | 1:A:21:SER:HG   | 1:A:35:HIS:HB3 | 20       | 3.99          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG2 | 20       | 3.99          |
| (1,4087) | 1:A:21:SER:HG   | 1:A:31:LYS:HG3 | 20       | 3.99          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 3        | 3.99          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 3        | 3.99          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H   | 13       | 3.99          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 19       | 3.99          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 19       | 3.99          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 19       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 10       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 10       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 10       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 11       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 11       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 11       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 13       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 13       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 13       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 19       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 19       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 19       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 20       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 20       | 3.99          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 20       | 3.99          |
| (1,3746) | 1:A:18:LEU:HG   | 1:A:29:GLY:H   | 14       | 3.99          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 4        | 3.99          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 5        | 3.99          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 4        | 3.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 6        | 3.99          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3  | 10       | 3.99          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 9        | 3.99          |
| (1,1509) | 1:A:6:GLN:H    | 1:A:11:TRP:HE1  | 13       | 3.99          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 11       | 3.99          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21  | 13       | 3.99          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 2        | 3.99          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 8        | 3.99          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 12       | 3.99          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 17       | 3.99          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2  | 11       | 3.99          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3  | 11       | 3.99          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3   | 8        | 3.98          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 14       | 3.98          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 8        | 3.98          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 8        | 3.98          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 13       | 3.98          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 13       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 10       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 12       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 12       | 3.98          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 12       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 12       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 12       | 3.98          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 12       | 3.98          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2  | 2        | 3.98          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H    | 2        | 3.98          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA   | 12       | 3.98          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB2  | 20       | 3.98          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB2  | 20       | 3.98          |
| (1,4441) | 1:A:23:TYR:HE1 | 1:A:35:HIS:HB3  | 20       | 3.98          |
| (1,4441) | 1:A:23:TYR:HE2 | 1:A:35:HIS:HB3  | 20       | 3.98          |
| (1,4434) | 1:A:23:TYR:HE1 | 1:A:32:TYR:HA   | 3        | 3.98          |
| (1,4434) | 1:A:23:TYR:HE2 | 1:A:32:TYR:HA   | 3        | 3.98          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2  | 6        | 3.98          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB2  | 6        | 3.98          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB3  | 6        | 3.98          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 6        | 3.98          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 8        | 3.98          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 8        | 3.98          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 14       | 3.98          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 14       | 3.98          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 6        | 3.98          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 6        | 3.98          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 17       | 3.98          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 17       | 3.98          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 17       | 3.98          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 17       | 3.98          |
| (1,4110) | 1:A:22:GLN:H    | 1:A:26:CYS:HA  | 3        | 3.98          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 6        | 3.98          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 6        | 3.98          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 3        | 3.98          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 12       | 3.98          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 12       | 3.98          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 12       | 3.98          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 18       | 3.98          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 18       | 3.98          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 18       | 3.98          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 11       | 3.98          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3 | 2        | 3.98          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 14       | 3.98          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 14       | 3.98          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 17       | 3.98          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 17       | 3.98          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 17       | 3.98          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 17       | 3.98          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 8        | 3.98          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 8        | 3.98          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 1        | 3.98          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2 | 1        | 3.98          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA  | 11       | 3.98          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 1        | 3.98          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 18       | 3.98          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 18       | 3.98          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 19       | 3.98          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 19       | 3.98          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 16       | 3.98          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 16       | 3.98          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 16       | 3.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3 | 16       | 3.98          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 6        | 3.98          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 9        | 3.98          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 18       | 3.98          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 19       | 3.98          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 20       | 3.98          |
| (1,1762) | 1:A:6:GLN:HG3  | 1:A:23:TYR:HB3 | 4        | 3.98          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3 | 2        | 3.98          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3 | 8        | 3.98          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 15       | 3.98          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 17       | 3.98          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 11       | 3.98          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 19       | 3.97          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 19       | 3.97          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 2        | 3.97          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 2        | 3.97          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 9        | 3.97          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 18       | 3.97          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 1        | 3.97          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 1        | 3.97          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 11       | 3.97          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 11       | 3.97          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 8        | 3.97          |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 17       | 3.97          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 5        | 3.97          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 11       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 16       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 16       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 18       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 18       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 19       | 3.97          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 19       | 3.97          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 7        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 7        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 7        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 7        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 8        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 8        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 8        | 3.97          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 8        | 3.97          |
| (1,4409) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HA  | 9        | 3.97          |
| (1,4409) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HA  | 9        | 3.97          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 9        | 3.97          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 9        | 3.97          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 16       | 3.97          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 18       | 3.97          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 18       | 3.97          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 4        | 3.97          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 17       | 3.97          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 17       | 3.97          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 4        | 3.97          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 4        | 3.97          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 4        | 3.97          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 3        | 3.97          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 3        | 3.97          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 3        | 3.97          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 1        | 3.97          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 1        | 3.97          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 1        | 3.97          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3 | 17       | 3.97          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3 | 17       | 3.97          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3 | 17       | 3.97          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 4        | 3.97          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 4        | 3.97          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 17       | 3.97          |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H   | 12       | 3.97          |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H   | 12       | 3.97          |
| (1,3359) | 1:A:15:ARG:HG2  | 1:A:19:CYS:H   | 14       | 3.97          |
| (1,3359) | 1:A:15:ARG:HG3  | 1:A:19:CYS:H   | 14       | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 7        | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 7        | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 16       | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 16       | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 20       | 3.97          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 20       | 3.97          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 1        | 3.97          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 1        | 3.97          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 1        | 3.97          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 1        | 3.97          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 4        | 3.97          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 5        | 3.97          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 7        | 3.97          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 8        | 3.97          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 10       | 3.97          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 12       | 3.97          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA  | 16       | 3.97          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3 | 7        | 3.97          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 6        | 3.97          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 7        | 3.97          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 16       | 3.97          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 15       | 3.97          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 18       | 3.97          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 19       | 3.97          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 17       | 3.97          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 17       | 3.97          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 15       | 3.96          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 6        | 3.96          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 6        | 3.96          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2  | 10       | 3.96          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3  | 10       | 3.96          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 18       | 3.96          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 18       | 3.96          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 6        | 3.96          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 6        | 3.96          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 13       | 3.96          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 19       | 3.96          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 20       | 3.96          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 20       | 3.96          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 20       | 3.96          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 5        | 3.96          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 19       | 3.96          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 16       | 3.96          |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 6        | 3.96          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 4        | 3.96          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 17       | 3.96          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 1        | 3.96          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 9        | 3.96          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB2 | 20       | 3.96          |
| (1,4456) | 1:A:24:GLY:H   | 1:A:32:TYR:HB3 | 20       | 3.96          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 10       | 3.96          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 10       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 17       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 17       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 17       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 17       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 19       | 3.96          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2 | 19       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3 | 19       | 3.96          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3 | 19       | 3.96          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2 | 16       | 3.96          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3 | 16       | 3.96          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 11       | 3.96          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 4        | 3.96          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 3        | 3.96          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 3        | 3.96          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 5        | 3.96          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 5        | 3.96          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 1        | 3.96          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 13       | 3.96          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 13       | 3.96          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 5        | 3.96          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 13       | 3.96          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 4        | 3.96          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 13       | 3.96          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 13       | 3.96          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 13       | 3.96          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 2        | 3.96          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 2        | 3.96          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 2        | 3.96          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 6        | 3.96          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 6        | 3.96          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 12       | 3.96          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 2        | 3.96          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 20       | 3.96          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 20       | 3.96          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 5        | 3.96          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H   | 12       | 3.96          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 11       | 3.96          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 15       | 3.96          |
| (1,2120) | 1:A:8:GLY:HA3   | 1:A:25:TYR:H   | 17       | 3.96          |
| (1,1986) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HE  | 7        | 3.96          |
| (1,1986) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HE  | 7        | 3.96          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 2        | 3.96          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 3        | 3.96          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3 | 4        | 3.96          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 7        | 3.96          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 16       | 3.96          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3 | 19       | 3.96          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 14       | 3.96          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 18       | 3.96          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21 | 19       | 3.96          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 7        | 3.96          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 19       | 3.95          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 12       | 3.95          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 12       | 3.95          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 12       | 3.95          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 12       | 3.95          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 14       | 3.95          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 19       | 3.95          |
| (1,614)  | 1:A:2:GLY:H    | 1:A:13:GLY:H   | 17       | 3.95          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 13       | 3.95          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 13       | 3.95          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 13       | 3.95          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 13       | 3.95          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 19       | 3.95          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 19       | 3.95          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 16       | 3.95          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 2        | 3.95          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 18       | 3.95          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 19       | 3.95          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 20       | 3.95          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 12       | 3.95          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 14       | 3.95          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 3        | 3.95          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 6        | 3.95          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 14       | 3.95          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 16       | 3.95          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 17       | 3.95          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 18       | 3.95          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 20       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 3        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 3        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 3        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 3        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 4        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 4        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 4        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 4        | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 11       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 11       | 3.95          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 11       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 11       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 13       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 13       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 13       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 13       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 16       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 16       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 16       | 3.95          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 16       | 3.95          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2  | 17       | 3.95          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2  | 17       | 3.95          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3  | 17       | 3.95          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3  | 17       | 3.95          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 7        | 3.95          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 7        | 3.95          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 8        | 3.95          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 8        | 3.95          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H    | 9        | 3.95          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 1        | 3.95          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 3        | 3.95          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 2        | 3.95          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 2        | 3.95          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 19       | 3.95          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 19       | 3.95          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 20       | 3.95          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 20       | 3.95          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 11       | 3.95          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 11       | 3.95          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 5        | 3.95          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 15       | 3.95          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 3        | 3.95          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 5        | 3.95          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 6        | 3.95          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1  | 2        | 3.95          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2  | 2        | 3.95          |
| (1,3377) | 1:A:15:ARG:HG2  | 1:A:27:GLY:H    | 11       | 3.95          |
| (1,3377) | 1:A:15:ARG:HG3  | 1:A:27:GLY:H    | 11       | 3.95          |
| (1,3307) | 1:A:15:ARG:HB2  | 1:A:27:GLY:HA2  | 11       | 3.95          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 6        | 3.95          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 11       | 3.95          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 13       | 3.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H    | 8        | 3.95          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 6        | 3.95          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 8        | 3.95          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 8        | 3.95          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2  | 9        | 3.95          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3  | 9        | 3.95          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3  | 13       | 3.95          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2  | 12       | 3.95          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3  | 12       | 3.95          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3  | 12       | 3.95          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 1        | 3.95          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 18       | 3.95          |
| (1,1456) | 1:A:5:GLY:HA2  | 1:A:11:TRP:HE3  | 20       | 3.95          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21  | 8        | 3.95          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21  | 12       | 3.95          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 8        | 3.95          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 7        | 3.95          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 13       | 3.95          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H     | 16       | 3.95          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3   | 18       | 3.94          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB2   | 5        | 3.94          |
| (1,834)  | 1:A:3:PRO:HB3  | 1:A:6:GLN:HB3   | 5        | 3.94          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 6        | 3.94          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 6        | 3.94          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB2   | 10       | 3.94          |
| (1,770)  | 1:A:3:PRO:HB2  | 1:A:6:GLN:HB3   | 10       | 3.94          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 16       | 3.94          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 16       | 3.94          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 16       | 3.94          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 16       | 3.94          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 16       | 3.94          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 16       | 3.94          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3   | 17       | 3.94          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3   | 17       | 3.94          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 9        | 3.94          |
| (1,510)  | 1:A:1:SER:HA   | 1:A:10:GLY:HA3  | 18       | 3.94          |
| (1,4858) | 1:A:31:LYS:HA  | 1:A:35:HIS:HE1  | 7        | 3.94          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1  | 12       | 3.94          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2  | 12       | 3.94          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3  | 12       | 3.94          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 11       | 3.94          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 11       | 3.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 2        | 3.94          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 4        | 3.94          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 8        | 3.94          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 13       | 3.94          |
| (1,4752) | 1:A:28:SER:HB3 | 1:A:32:TYR:H   | 15       | 3.94          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 5        | 3.94          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 10       | 3.94          |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 19       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 2        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 2        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 2        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 2        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 9        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 9        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 9        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 9        | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 12       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 12       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 12       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 12       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 18       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 18       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA3 | 18       | 3.94          |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA3 | 18       | 3.94          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2 | 20       | 3.94          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB2 | 20       | 3.94          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB3 | 20       | 3.94          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB3 | 20       | 3.94          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA2 | 12       | 3.94          |
| (1,4344) | 1:A:23:TYR:H   | 1:A:27:GLY:HA3 | 12       | 3.94          |
| (1,4160) | 1:A:22:GLN:HG2 | 1:A:24:GLY:HA2 | 14       | 3.94          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB2 | 3        | 3.94          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB3 | 3        | 3.94          |
| (1,4061) | 1:A:21:SER:HB3 | 1:A:31:LYS:HB2 | 1        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE1 | 3        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE2 | 3        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE1 | 4        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE2 | 4        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE1 | 6        | 3.94          |
| (1,4057) | 1:A:21:SER:HB3 | 1:A:25:TYR:HE2 | 6        | 3.94          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE1 | 18       | 3.94          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE2 | 18       | 3.94          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 10       | 3.94          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 11       | 3.94          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 16       | 3.94          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 18       | 3.94          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 20       | 3.94          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 2        | 3.94          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 6        | 3.94          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 10       | 3.94          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2  | 10       | 3.94          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2  | 10       | 3.94          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2  | 10       | 3.94          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 2        | 3.94          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 2        | 3.94          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 2        | 3.94          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 15       | 3.94          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 15       | 3.94          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 15       | 3.94          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 5        | 3.94          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 5        | 3.94          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 5        | 3.94          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 15       | 3.94          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 15       | 3.94          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 15       | 3.94          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 8        | 3.94          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 15       | 3.94          |
| (1,3306) | 1:A:15:ARG:HB2  | 1:A:26:CYS:HA   | 14       | 3.94          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 10       | 3.94          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2  | 1        | 3.94          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA   | 1        | 3.94          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA   | 11       | 3.94          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA   | 14       | 3.94          |
| (1,1456) | 1:A:5:GLY:HA2   | 1:A:11:TRP:HE3  | 9        | 3.94          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H     | 12       | 3.94          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H    | 12       | 3.93          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 2        | 3.93          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 9        | 3.93          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 9        | 3.93          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 9        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 9        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 9        | 3.93          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 9        | 3.93          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 1        | 3.93          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H    | 12       | 3.93          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H    | 12       | 3.93          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2  | 16       | 3.93          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 10       | 3.93          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB1  | 15       | 3.93          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB2  | 15       | 3.93          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB3  | 15       | 3.93          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H    | 16       | 3.93          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2  | 11       | 3.93          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 16       | 3.93          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 16       | 3.93          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 20       | 3.93          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 20       | 3.93          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 8        | 3.93          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 13       | 3.93          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 15       | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 5        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 5        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 5        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 5        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 6        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 6        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 6        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 6        | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 10       | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 10       | 3.93          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 10       | 3.93          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 10       | 3.93          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA   | 18       | 3.93          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA   | 18       | 3.93          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 18       | 3.93          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 18       | 3.93          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 19       | 3.93          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 19       | 3.93          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 17       | 3.93          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 17       | 3.93          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 17       | 3.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 9        | 3.93          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 9        | 3.93          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 6        | 3.93          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 19       | 3.93          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 15       | 3.93          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 15       | 3.93          |
| (1,4243) | 1:A:22:GLN:HB3  | 1:A:35:HIS:H   | 3        | 3.93          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 19       | 3.93          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 6        | 3.93          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 4        | 3.93          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 4        | 3.93          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 6        | 3.93          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 6        | 3.93          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1 | 16       | 3.93          |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2 | 16       | 3.93          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 14       | 3.93          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 20       | 3.93          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 1        | 3.93          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 2        | 3.93          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2 | 19       | 3.93          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 1        | 3.93          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 4        | 3.93          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 6        | 3.93          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 6        | 3.93          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 6        | 3.93          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB2 | 15       | 3.93          |
| (1,3569) | 1:A:17:GLY:H    | 1:A:26:CYS:HB3 | 15       | 3.93          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA  | 11       | 3.93          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA  | 11       | 3.93          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 12       | 3.93          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 2        | 3.93          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3 | 15       | 3.93          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 12       | 3.93          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 12       | 3.93          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3 | 5        | 3.93          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3 | 6        | 3.93          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 15       | 3.93          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 4        | 3.93          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 4        | 3.93          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 8        | 3.93          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 9        | 3.93          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 2        | 3.93          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA   | 10       | 3.93          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21  | 9        | 3.93          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21  | 11       | 3.93          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21  | 20       | 3.93          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 8        | 3.93          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 8        | 3.93          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB2   | 5        | 3.92          |
| (1,770)  | 1:A:3:PRO:HB2   | 1:A:6:GLN:HB3   | 5        | 3.92          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H    | 7        | 3.92          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3  | 8        | 3.92          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3  | 8        | 3.92          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 6        | 3.92          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 10       | 3.92          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 14       | 3.92          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3  | 7        | 3.92          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2  | 16       | 3.92          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB1  | 13       | 3.92          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB2  | 13       | 3.92          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB3  | 13       | 3.92          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 18       | 3.92          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 18       | 3.92          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 19       | 3.92          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 19       | 3.92          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ1  | 18       | 3.92          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ2  | 18       | 3.92          |
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3  | 18       | 3.92          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2  | 4        | 3.92          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2  | 4        | 3.92          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3  | 4        | 3.92          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3  | 4        | 3.92          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA2  | 20       | 3.92          |
| (1,4344) | 1:A:23:TYR:H    | 1:A:27:GLY:HA3  | 20       | 3.92          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE21 | 2        | 3.92          |
| (1,3986) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HE22 | 2        | 3.92          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 13       | 3.92          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 11       | 3.92          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 13       | 3.92          |
| (1,3780) | 1:A:18:LEU:HD11 | 1:A:29:GLY:H    | 14       | 3.92          |
| (1,3780) | 1:A:18:LEU:HD12 | 1:A:29:GLY:H    | 14       | 3.92          |
| (1,3780) | 1:A:18:LEU:HD13 | 1:A:29:GLY:H    | 14       | 3.92          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 16       | 3.92          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 16       | 3.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 16       | 3.92          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 1        | 3.92          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 1        | 3.92          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H    | 9        | 3.92          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 1        | 3.92          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 10       | 3.92          |
| (1,3342) | 1:A:15:ARG:HB3  | 1:A:27:GLY:H    | 13       | 3.92          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H    | 9        | 3.92          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE   | 5        | 3.92          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 3        | 3.92          |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 4        | 3.92          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 4        | 3.92          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 10       | 3.92          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 18       | 3.92          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 19       | 3.92          |
| (1,1924) | 1:A:7:CYS:H     | 1:A:11:TRP:HE3  | 20       | 3.92          |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H    | 6        | 3.92          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 9        | 3.92          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 9        | 3.92          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA   | 5        | 3.92          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA   | 14       | 3.92          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H    | 13       | 3.92          |
| (1,1454) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HE21  | 1        | 3.92          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H     | 8        | 3.92          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H     | 11       | 3.92          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H     | 18       | 3.92          |
| (1,1130) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ3  | 19       | 3.92          |
| (1,1128) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE3  | 13       | 3.92          |
| (1,1128) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE3  | 15       | 3.92          |
| (1,646)  | 1:A:2:GLY:H     | 1:A:26:CYS:H    | 18       | 3.91          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1  | 15       | 3.91          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2  | 15       | 3.91          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 19       | 3.91          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 19       | 3.91          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 19       | 3.91          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 19       | 3.91          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 19       | 3.91          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 19       | 3.91          |
| (1,530)  | 1:A:1:SER:HA    | 1:A:26:CYS:HB2  | 6        | 3.91          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 8        | 3.91          |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3  | 7        | 3.91          |
| (1,4928) | 1:A:32:TYR:HD1  | 1:A:34:ALA:HA   | 10       | 3.91          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4928) | 1:A:32:TYR:HD2  | 1:A:34:ALA:HA  | 10       | 3.91          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 12       | 3.91          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 9        | 3.91          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 9        | 3.91          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 18       | 3.91          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 18       | 3.91          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 3        | 3.91          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 3        | 3.91          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 19       | 3.91          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 19       | 3.91          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 5        | 3.91          |
| (1,4864) | 1:A:31:LYS:HB2  | 1:A:35:HIS:HB3 | 19       | 3.91          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB1 | 2        | 3.91          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB2 | 2        | 3.91          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB3 | 2        | 3.91          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H   | 1        | 3.91          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 4        | 3.91          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 10       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2 | 14       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2 | 14       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3 | 14       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3 | 14       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2 | 20       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2 | 20       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3 | 20       | 3.91          |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3 | 20       | 3.91          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 9        | 3.91          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 16       | 3.91          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 16       | 3.91          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 9        | 3.91          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 9        | 3.91          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 10       | 3.91          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 10       | 3.91          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 15       | 3.91          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 6        | 3.91          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 2        | 3.91          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 5        | 3.91          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 10       | 3.91          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 8        | 3.91          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 8        | 3.91          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 8        | 3.91          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 15       | 3.91          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 8        | 3.91          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 16       | 3.91          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H   | 9        | 3.91          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 11       | 3.91          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 11       | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 2        | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 3        | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 7        | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 8        | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 9        | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 12       | 3.91          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 16       | 3.91          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 4        | 3.91          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 3        | 3.91          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 3        | 3.91          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 7        | 3.91          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 7        | 3.91          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3 | 19       | 3.91          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2 | 11       | 3.91          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3 | 11       | 3.91          |
| (1,1408) | 1:A:5:GLY:H    | 1:A:11:TRP:HZ3 | 9        | 3.91          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 13       | 3.91          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 18       | 3.91          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 16       | 3.9           |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 17       | 3.9           |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 17       | 3.9           |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 13       | 3.9           |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 13       | 3.9           |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 12       | 3.9           |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 12       | 3.9           |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 4        | 3.9           |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 4        | 3.9           |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 4        | 3.9           |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 7        | 3.9           |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 7        | 3.9           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 9        | 3.9           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 9        | 3.9           |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 3        | 3.9           |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 3        | 3.9           |
| (1,4520) | 1:A:25:TYR:H   | 1:A:32:TYR:HA  | 4        | 3.9           |
| (1,4414) | 1:A:23:TYR:HE1 | 1:A:24:GLY:HA2 | 1        | 3.9           |
| (1,4414) | 1:A:23:TYR:HE2 | 1:A:24:GLY:HA2 | 1        | 3.9           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 1        | 3.9           |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 1        | 3.9           |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA2  | 15       | 3.9           |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA2  | 15       | 3.9           |
| (1,4414) | 1:A:23:TYR:HE1  | 1:A:24:GLY:HA3  | 15       | 3.9           |
| (1,4414) | 1:A:23:TYR:HE2  | 1:A:24:GLY:HA3  | 15       | 3.9           |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 17       | 3.9           |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA   | 2        | 3.9           |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE1  | 5        | 3.9           |
| (1,4022) | 1:A:21:SER:H    | 1:A:25:TYR:HE2  | 5        | 3.9           |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H    | 15       | 3.9           |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H    | 14       | 3.9           |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 5        | 3.9           |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 5        | 3.9           |
| (1,3361) | 1:A:15:ARG:HG2  | 1:A:20:CYS:H    | 20       | 3.9           |
| (1,3361) | 1:A:15:ARG:HG3  | 1:A:20:CYS:H    | 20       | 3.9           |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3  | 12       | 3.9           |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2  | 14       | 3.9           |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3  | 14       | 3.9           |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H    | 3        | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 6        | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 6        | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 13       | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 13       | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 18       | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 18       | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2  | 19       | 3.9           |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3  | 19       | 3.9           |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3  | 18       | 3.9           |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2  | 9        | 3.9           |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3  | 9        | 3.9           |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3  | 6        | 3.9           |
| (1,1128) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HE3  | 9        | 3.9           |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 20       | 3.89          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 20       | 3.89          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 20       | 3.89          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 20       | 3.89          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 20       | 3.89          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 20       | 3.89          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3  | 4        | 3.89          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3  | 4        | 3.89          |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3   | 9        | 3.89          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3  | 9        | 3.89          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 7        | 3.89          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 19       | 3.89          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 19       | 3.89          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 19       | 3.89          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1 | 6        | 3.89          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2 | 6        | 3.89          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 3        | 3.89          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 6        | 3.89          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 7        | 3.89          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 10       | 3.89          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 10       | 3.89          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 10       | 3.89          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 10       | 3.89          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 10       | 3.89          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 10       | 3.89          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 10       | 3.89          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 10       | 3.89          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA2 | 19       | 3.89          |
| (1,4305) | 1:A:22:GLN:HE22 | 1:A:24:GLY:HA3 | 19       | 3.89          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 19       | 3.89          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 19       | 3.89          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 4        | 3.89          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 4        | 3.89          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 18       | 3.89          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 16       | 3.89          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 13       | 3.89          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 13       | 3.89          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 7        | 3.89          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 9        | 3.89          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 16       | 3.89          |
| (1,3776) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HB2 | 14       | 3.89          |
| (1,3776) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HB2 | 14       | 3.89          |
| (1,3776) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HB2 | 14       | 3.89          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 1        | 3.89          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 1        | 3.89          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 1        | 3.89          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 11       | 3.89          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 11       | 3.89          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 11       | 3.89          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 11       | 3.89          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 11       | 3.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 1        | 3.89          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H   | 18       | 3.89          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H   | 19       | 3.89          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H   | 20       | 3.89          |
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 5        | 3.89          |
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 17       | 3.89          |
| (1,2658) | 1:A:11:TRP:HB2 | 1:A:24:GLY:HA2 | 17       | 3.89          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 15       | 3.89          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 10       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 15       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 15       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 16       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 16       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 20       | 3.89          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 20       | 3.89          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3 | 16       | 3.89          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2 | 1        | 3.89          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3 | 1        | 3.89          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 12       | 3.89          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 17       | 3.89          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 7        | 3.89          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H    | 19       | 3.89          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 16       | 3.89          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 9        | 3.88          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 1        | 3.88          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 1        | 3.88          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 11       | 3.88          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 11       | 3.88          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 11       | 3.88          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 11       | 3.88          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 5        | 3.88          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 5        | 3.88          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 3        | 3.88          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 16       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 19       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 19       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 19       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 19       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 19       | 3.88          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 19       | 3.88          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H   | 17       | 3.88          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H   | 17       | 3.88          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 8        | 3.88          |
| (1,4875) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HB3 | 16       | 3.88          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB1 | 12       | 3.88          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB2 | 12       | 3.88          |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB3 | 12       | 3.88          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 10       | 3.88          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 10       | 3.88          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1 | 7        | 3.88          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2 | 7        | 3.88          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 10       | 3.88          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 10       | 3.88          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 8        | 3.88          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 11       | 3.88          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 1        | 3.88          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 1        | 3.88          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 1        | 3.88          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 1        | 3.88          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 3        | 3.88          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 4        | 3.88          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 6        | 3.88          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 10       | 3.88          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 10       | 3.88          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 6        | 3.88          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 14       | 3.88          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 9        | 3.88          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 10       | 3.88          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 10       | 3.88          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 10       | 3.88          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 8        | 3.88          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 12       | 3.88          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 18       | 3.88          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 19       | 3.88          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 20       | 3.88          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 9        | 3.88          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 9        | 3.88          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 9        | 3.88          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 13       | 3.88          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 15       | 3.88          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB2 | 8        | 3.88          |
| (1,3536) | 1:A:16:GLY:HA3  | 1:A:26:CYS:HB3 | 8        | 3.88          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 20       | 3.88          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 20       | 3.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3  | 8        | 3.88          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE   | 6        | 3.88          |
| (1,3175) | 1:A:14:CYS:H   | 1:A:21:SER:H    | 7        | 3.88          |
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG   | 6        | 3.88          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB2  | 17       | 3.88          |
| (1,2060) | 1:A:8:GLY:H    | 1:A:26:CYS:HB3  | 17       | 3.88          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB2  | 15       | 3.88          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB2  | 15       | 3.88          |
| (1,1985) | 1:A:7:CYS:HB2  | 1:A:15:ARG:HB3  | 15       | 3.88          |
| (1,1985) | 1:A:7:CYS:HB3  | 1:A:15:ARG:HB3  | 15       | 3.88          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3  | 1        | 3.88          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3  | 14       | 3.88          |
| (1,1923) | 1:A:7:CYS:H    | 1:A:11:TRP:HA   | 13       | 3.88          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H    | 2        | 3.88          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2  | 8        | 3.88          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3  | 8        | 3.88          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3  | 20       | 3.88          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 12       | 3.88          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 12       | 3.88          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 9        | 3.88          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 15       | 3.88          |
| (1,1454) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HE21  | 17       | 3.88          |
| (1,1182) | 1:A:4:ASN:HB3  | 1:A:7:CYS:H     | 16       | 3.88          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3  | 9        | 3.88          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3  | 12       | 3.88          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2  | 4        | 3.88          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3  | 4        | 3.88          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 11       | 3.87          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 7        | 3.87          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 7        | 3.87          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 15       | 3.87          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 15       | 3.87          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 15       | 3.87          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 15       | 3.87          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 15       | 3.87          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 15       | 3.87          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2  | 6        | 3.87          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3  | 6        | 3.87          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2  | 6        | 3.87          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3  | 6        | 3.87          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3  | 15       | 3.87          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3  | 15       | 3.87          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1  | 12       | 3.87          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H    | 3        | 3.87          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H    | 3        | 3.87          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H    | 3        | 3.87          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 11       | 3.87          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE1  | 14       | 3.87          |
| (1,4844) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HE2  | 14       | 3.87          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H    | 3        | 3.87          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H    | 18       | 3.87          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2  | 13       | 3.87          |
| (1,4520) | 1:A:25:TYR:H    | 1:A:32:TYR:HA   | 2        | 3.87          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2  | 7        | 3.87          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3  | 7        | 3.87          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2  | 7        | 3.87          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3  | 7        | 3.87          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG2  | 14       | 3.87          |
| (1,4351) | 1:A:23:TYR:H    | 1:A:31:LYS:HG3  | 14       | 3.87          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H    | 12       | 3.87          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 15       | 3.87          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2  | 20       | 3.87          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 15       | 3.87          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 15       | 3.87          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 7        | 3.87          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 7        | 3.87          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 14       | 3.87          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 14       | 3.87          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H    | 5        | 3.87          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 9        | 3.87          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 11       | 3.87          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 15       | 3.87          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2  | 3        | 3.87          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3  | 3        | 3.87          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 1        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 4        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 4        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 4        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 5        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 5        | 3.87          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 5        | 3.87          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 7        | 3.87          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 7        | 3.87          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 7        | 3.87          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3653) | 1:A:18:LEU:H   | 1:A:28:SER:H    | 17       | 3.87          |
| (1,3650) | 1:A:18:LEU:H   | 1:A:26:CYS:HB2  | 16       | 3.87          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2  | 9        | 3.87          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3  | 9        | 3.87          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB2  | 12       | 3.87          |
| (1,3536) | 1:A:16:GLY:HA3 | 1:A:26:CYS:HB3  | 12       | 3.87          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 3        | 3.87          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2  | 7        | 3.87          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2  | 7        | 3.87          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3  | 7        | 3.87          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3  | 7        | 3.87          |
| (1,3361) | 1:A:15:ARG:HG2 | 1:A:20:CYS:H    | 18       | 3.87          |
| (1,3361) | 1:A:15:ARG:HG3 | 1:A:20:CYS:H    | 18       | 3.87          |
| (1,3306) | 1:A:15:ARG:HB2 | 1:A:26:CYS:HA   | 1        | 3.87          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2  | 18       | 3.87          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3  | 18       | 3.87          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3  | 18       | 3.87          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2  | 10       | 3.87          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3  | 10       | 3.87          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3  | 11       | 3.87          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H    | 5        | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 7        | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 7        | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 8        | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 8        | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 15       | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 15       | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 16       | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 16       | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 20       | 3.87          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 20       | 3.87          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2  | 3        | 3.87          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3  | 3        | 3.87          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2  | 1        | 3.87          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3  | 1        | 3.87          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2  | 15       | 3.87          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3  | 15       | 3.87          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1  | 9        | 3.86          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2  | 9        | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 6        | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 6        | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 6        | 3.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 6        | 3.86          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 6        | 3.86          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 6        | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 18       | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 18       | 3.86          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 18       | 3.86          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 18       | 3.86          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 18       | 3.86          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 18       | 3.86          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3  | 17       | 3.86          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3  | 17       | 3.86          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H    | 8        | 3.86          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1  | 4        | 3.86          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2  | 4        | 3.86          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 14       | 3.86          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 14       | 3.86          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 14       | 3.86          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 17       | 3.86          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1  | 5        | 3.86          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2  | 5        | 3.86          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3  | 9        | 3.86          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3  | 12       | 3.86          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H    | 1        | 3.86          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H    | 1        | 3.86          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2  | 5        | 3.86          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3  | 5        | 3.86          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2  | 5        | 3.86          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3  | 5        | 3.86          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2  | 8        | 3.86          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB2  | 8        | 3.86          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB3  | 8        | 3.86          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB3  | 8        | 3.86          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 18       | 3.86          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 18       | 3.86          |
| (1,4249) | 1:A:22:GLN:HG3 | 1:A:25:TYR:H    | 13       | 3.86          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H    | 8        | 3.86          |
| (1,4161) | 1:A:22:GLN:HB2 | 1:A:24:GLY:HA2  | 1        | 3.86          |
| (1,4124) | 1:A:22:GLN:H   | 1:A:32:TYR:H    | 3        | 3.86          |
| (1,3900) | 1:A:19:CYS:HB3 | 1:A:27:GLY:HA2  | 1        | 3.86          |
| (1,3900) | 1:A:19:CYS:HB3 | 1:A:27:GLY:HA2  | 17       | 3.86          |
| (1,3829) | 1:A:19:CYS:H   | 1:A:25:TYR:HB2  | 4        | 3.86          |
| (1,3829) | 1:A:19:CYS:H   | 1:A:25:TYR:HB3  | 4        | 3.86          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2  | 6        | 3.86          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3  | 6        | 3.86          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 17       | 3.86          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 17       | 3.86          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 17       | 3.86          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3  | 6        | 3.86          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3  | 6        | 3.86          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3  | 6        | 3.86          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 18       | 3.86          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 18       | 3.86          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 18       | 3.86          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 19       | 3.86          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 19       | 3.86          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 19       | 3.86          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 17       | 3.86          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 17       | 3.86          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2  | 19       | 3.86          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3  | 19       | 3.86          |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3  | 19       | 3.86          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2  | 13       | 3.86          |
| (1,3175) | 1:A:14:CYS:H    | 1:A:21:SER:H    | 16       | 3.86          |
| (1,1762) | 1:A:6:GLN:HG3   | 1:A:23:TYR:HB3  | 6        | 3.86          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2  | 18       | 3.86          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3  | 18       | 3.86          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2  | 19       | 3.86          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3  | 19       | 3.86          |
| (1,1568) | 1:A:6:GLN:HA    | 1:A:23:TYR:HB3  | 15       | 3.86          |
| (1,1182) | 1:A:4:ASN:HB3   | 1:A:7:CYS:H     | 13       | 3.86          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 14       | 3.86          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 14       | 3.86          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 1        | 3.85          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 1        | 3.85          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 1        | 3.85          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 1        | 3.85          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 1        | 3.85          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 1        | 3.85          |
| (1,554)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HE   | 7        | 3.85          |
| (1,554)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HE   | 7        | 3.85          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2  | 10       | 3.85          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3  | 10       | 3.85          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2  | 10       | 3.85          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3  | 10       | 3.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 4        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 5        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 5        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 5        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 5        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 5        | 3.85          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 5        | 3.85          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 4        | 3.85          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 4        | 3.85          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 15       | 3.85          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 10       | 3.85          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 10       | 3.85          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 2        | 3.85          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 2        | 3.85          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 12       | 3.85          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 12       | 3.85          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2 | 10       | 3.85          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3 | 10       | 3.85          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 13       | 3.85          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 13       | 3.85          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 17       | 3.85          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 17       | 3.85          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 18       | 3.85          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 18       | 3.85          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 17       | 3.85          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 17       | 3.85          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 13       | 3.85          |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 10       | 3.85          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG2 | 20       | 3.85          |
| (1,4351) | 1:A:23:TYR:H   | 1:A:31:LYS:HG3 | 20       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 1        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 2        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 5        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 7        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 8        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 9        | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 10       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 11       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 13       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 14       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 15       | 3.85          |
| (1,4340) | 1:A:23:TYR:H   | 1:A:26:CYS:H   | 17       | 3.85          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 13       | 3.85          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 13       | 3.85          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1  | 13       | 3.85          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2  | 13       | 3.85          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2  | 15       | 3.85          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 9        | 3.85          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H    | 19       | 3.85          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2  | 11       | 3.85          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3  | 11       | 3.85          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 8        | 3.85          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 8        | 3.85          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 9        | 3.85          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 9        | 3.85          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 17       | 3.85          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA   | 9        | 3.85          |
| (1,3900) | 1:A:19:CYS:HB3  | 1:A:27:GLY:HA2  | 7        | 3.85          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 6        | 3.85          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 6        | 3.85          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 6        | 3.85          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H    | 10       | 3.85          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H    | 10       | 3.85          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H    | 10       | 3.85          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H    | 16       | 3.85          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H    | 16       | 3.85          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H    | 16       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 13       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 13       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 13       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H    | 20       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H    | 20       | 3.85          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H    | 20       | 3.85          |
| (1,3762) | 1:A:18:LEU:HD11 | 1:A:19:CYS:HB3  | 14       | 3.85          |
| (1,3762) | 1:A:18:LEU:HD12 | 1:A:19:CYS:HB3  | 14       | 3.85          |
| (1,3762) | 1:A:18:LEU:HD13 | 1:A:19:CYS:HB3  | 14       | 3.85          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2  | 12       | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 4        | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 4        | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 9        | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 9        | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 10       | 3.85          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 10       | 3.85          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 11       | 3.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3520) | 1:A:16:GLY:HA2 | 1:A:33:CYS:HB3 | 10       | 3.85          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 19       | 3.85          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 19       | 3.85          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 19       | 3.85          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 19       | 3.85          |
| (1,3375) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HA  | 11       | 3.85          |
| (1,3375) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HA  | 11       | 3.85          |
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 16       | 3.85          |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 16       | 3.85          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE  | 1        | 3.85          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 17       | 3.85          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 17       | 3.85          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 10       | 3.85          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 14       | 3.85          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB2 | 15       | 3.85          |
| (1,2029) | 1:A:8:GLY:H    | 1:A:14:CYS:HB3 | 15       | 3.85          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB2 | 2        | 3.85          |
| (1,1663) | 1:A:6:GLN:HB3  | 1:A:26:CYS:HB3 | 2        | 3.85          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 8        | 3.85          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 7        | 3.85          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 6        | 3.84          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 6        | 3.84          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 6        | 3.84          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 6        | 3.84          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 6        | 3.84          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 12       | 3.84          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 12       | 3.84          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 12       | 3.84          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 12       | 3.84          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 10       | 3.84          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 10       | 3.84          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 19       | 3.84          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 2        | 3.84          |
| (1,4904) | 1:A:31:LYS:HE2 | 1:A:34:ALA:H   | 15       | 3.84          |
| (1,4904) | 1:A:31:LYS:HE3 | 1:A:34:ALA:H   | 15       | 3.84          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 4        | 3.84          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 4        | 3.84          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 8        | 3.84          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 8        | 3.84          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1 | 13       | 3.84          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2 | 13       | 3.84          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3 | 9        | 3.84          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 11       | 3.84          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 11       | 3.84          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 1        | 3.84          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 1        | 3.84          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 16       | 3.84          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 18       | 3.84          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 19       | 3.84          |
| (1,4340) | 1:A:23:TYR:H    | 1:A:26:CYS:H   | 20       | 3.84          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 16       | 3.84          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 10       | 3.84          |
| (1,4161) | 1:A:22:GLN:HB2  | 1:A:24:GLY:HA2 | 17       | 3.84          |
| (1,4061) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB2 | 15       | 3.84          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 1        | 3.84          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 1        | 3.84          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 15       | 3.84          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 15       | 3.84          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 10       | 3.84          |
| (1,3923) | 1:A:20:CYS:H    | 1:A:25:TYR:H   | 14       | 3.84          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H   | 2        | 3.84          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD1 | 14       | 3.84          |
| (1,3777) | 1:A:18:LEU:HD11 | 1:A:25:TYR:HD2 | 14       | 3.84          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD1 | 14       | 3.84          |
| (1,3777) | 1:A:18:LEU:HD12 | 1:A:25:TYR:HD2 | 14       | 3.84          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD1 | 14       | 3.84          |
| (1,3777) | 1:A:18:LEU:HD13 | 1:A:25:TYR:HD2 | 14       | 3.84          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 4        | 3.84          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 4        | 3.84          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 4        | 3.84          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 13       | 3.84          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 13       | 3.84          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 20       | 3.84          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 7        | 3.84          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 7        | 3.84          |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3 | 20       | 3.84          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 15       | 3.84          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 5        | 3.84          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 5        | 3.84          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 6        | 3.84          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 6        | 3.84          |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H   | 14       | 3.84          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 13       | 3.84          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 15       | 3.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 2        | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 2        | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 4        | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 4        | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 10       | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 10       | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2  | 14       | 3.84          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3  | 14       | 3.84          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA   | 13       | 3.84          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 3        | 3.84          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2  | 13       | 3.84          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3  | 13       | 3.84          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3   | 4        | 3.83          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2  | 17       | 3.83          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 13       | 3.83          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 13       | 3.83          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 13       | 3.83          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 13       | 3.83          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 13       | 3.83          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 13       | 3.83          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3  | 5        | 3.83          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3  | 5        | 3.83          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3  | 6        | 3.83          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3  | 6        | 3.83          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3   | 7        | 3.83          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3   | 7        | 3.83          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H    | 2        | 3.83          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H    | 2        | 3.83          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H    | 6        | 3.83          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE1  | 15       | 3.83          |
| (1,4844) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HE2  | 15       | 3.83          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA   | 15       | 3.83          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA   | 15       | 3.83          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA   | 3        | 3.83          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA   | 3        | 3.83          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 13       | 3.83          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 13       | 3.83          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3  | 1        | 3.83          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3  | 5        | 3.83          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3  | 11       | 3.83          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3  | 14       | 3.83          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2  | 7        | 3.83          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 7        | 3.83          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 7        | 3.83          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 7        | 3.83          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 1        | 3.83          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 1        | 3.83          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 1        | 3.83          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 5        | 3.83          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 2        | 3.83          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 2        | 3.83          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 17       | 3.83          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 17       | 3.83          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 7        | 3.83          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 9        | 3.83          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 9        | 3.83          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 6        | 3.83          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 2        | 3.83          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 11       | 3.83          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 13       | 3.83          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 20       | 3.83          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 2        | 3.83          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 2        | 3.83          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 7        | 3.83          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 7        | 3.83          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 18       | 3.83          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 19       | 3.83          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 12       | 3.83          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 12       | 3.83          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 5        | 3.83          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 5        | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 18       | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 18       | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 19       | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 19       | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 20       | 3.83          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 20       | 3.83          |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 2        | 3.83          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 10       | 3.83          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 10       | 3.83          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 1        | 3.83          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 1        | 3.83          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 10       | 3.83          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 10       | 3.83          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2 | 3        | 3.83          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3 | 3        | 3.83          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2 | 5        | 3.83          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3 | 5        | 3.83          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA2 | 6        | 3.83          |
| (1,1622) | 1:A:6:GLN:HB3  | 1:A:10:GLY:HA3 | 6        | 3.83          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 4        | 3.83          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 17       | 3.83          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 4        | 3.83          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2 | 7        | 3.83          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3 | 7        | 3.83          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 12       | 3.82          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 12       | 3.82          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 5        | 3.82          |
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 7        | 3.82          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 19       | 3.82          |
| (1,4938) | 1:A:33:CYS:HA  | 1:A:35:HIS:HE1 | 5        | 3.82          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 16       | 3.82          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 15       | 3.82          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H   | 4        | 3.82          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H   | 4        | 3.82          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H   | 4        | 3.82          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3 | 16       | 3.82          |
| (1,4863) | 1:A:31:LYS:HB2 | 1:A:35:HIS:H   | 16       | 3.82          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 4        | 3.82          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 4        | 3.82          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 1        | 3.82          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 1        | 3.82          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 6        | 3.82          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 6        | 3.82          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 11       | 3.82          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 11       | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 3        | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 3        | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 5        | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 5        | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 6        | 3.82          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 6        | 3.82          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 20       | 3.82          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 20       | 3.82          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 16       | 3.82          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB2 | 17       | 3.82          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB3 | 17       | 3.82          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 4        | 3.82          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 7        | 3.82          |
| (1,4728) | 1:A:28:SER:H   | 1:A:31:LYS:HB3 | 14       | 3.82          |
| (1,4726) | 1:A:28:SER:H   | 1:A:31:LYS:HB2 | 1        | 3.82          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3 | 8        | 3.82          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3 | 10       | 3.82          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 16       | 3.82          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 16       | 3.82          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 16       | 3.82          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 16       | 3.82          |
| (1,4211) | 1:A:22:GLN:HB2 | 1:A:35:HIS:H   | 11       | 3.82          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE1 | 15       | 3.82          |
| (1,4168) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HE2 | 15       | 3.82          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H   | 14       | 3.82          |
| (1,4161) | 1:A:22:GLN:HB2 | 1:A:24:GLY:HA2 | 3        | 3.82          |
| (1,4112) | 1:A:22:GLN:H   | 1:A:27:GLY:HA2 | 11       | 3.82          |
| (1,4112) | 1:A:22:GLN:H   | 1:A:27:GLY:HA3 | 11       | 3.82          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE1 | 2        | 3.82          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE2 | 2        | 3.82          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE1 | 10       | 3.82          |
| (1,4022) | 1:A:21:SER:H   | 1:A:25:TYR:HE2 | 10       | 3.82          |
| (1,3910) | 1:A:20:CYS:H   | 1:A:21:SER:HG  | 3        | 3.82          |
| (1,3910) | 1:A:20:CYS:H   | 1:A:21:SER:HG  | 4        | 3.82          |
| (1,3910) | 1:A:20:CYS:H   | 1:A:21:SER:HG  | 6        | 3.82          |
| (1,3859) | 1:A:19:CYS:HA  | 1:A:26:CYS:H   | 18       | 3.82          |
| (1,3654) | 1:A:18:LEU:H   | 1:A:29:GLY:H   | 10       | 3.82          |
| (1,3650) | 1:A:18:LEU:H   | 1:A:26:CYS:HB2 | 7        | 3.82          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 18       | 3.82          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 19       | 3.82          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 7        | 3.82          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 9        | 3.82          |
| (1,3193) | 1:A:14:CYS:HB2 | 1:A:15:ARG:HE  | 18       | 3.82          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 7        | 3.82          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 7        | 3.82          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 12       | 3.82          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 12       | 3.82          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 4        | 3.82          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 5        | 3.82          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 6        | 3.82          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 4        | 3.82          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 4        | 3.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 5        | 3.82          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 5        | 3.82          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 11       | 3.82          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 11       | 3.82          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 6        | 3.82          |
| (1,1130) | 1:A:4:ASN:HB2   | 1:A:11:TRP:HZ3 | 8        | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 3        | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 3        | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 16       | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 16       | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 20       | 3.82          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 20       | 3.82          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3 | 3        | 3.81          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3 | 3        | 3.81          |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3  | 10       | 3.81          |
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3  | 10       | 3.81          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1 | 20       | 3.81          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 13       | 3.81          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 18       | 3.81          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 18       | 3.81          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 15       | 3.81          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 15       | 3.81          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 17       | 3.81          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 17       | 3.81          |
| (1,4873) | 1:A:31:LYS:HG2  | 1:A:35:HIS:H   | 10       | 3.81          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 9        | 3.81          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 9        | 3.81          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 17       | 3.81          |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 17       | 3.81          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 7        | 3.81          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 7        | 3.81          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 7        | 3.81          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 2        | 3.81          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 15       | 3.81          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 17       | 3.81          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 4        | 3.81          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 4        | 3.81          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 17       | 3.81          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 17       | 3.81          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 8        | 3.81          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 20       | 3.81          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 5        | 3.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 10       | 3.81          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 10       | 3.81          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 13       | 3.81          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 13       | 3.81          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 12       | 3.81          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 17       | 3.81          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 7        | 3.81          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 9        | 3.81          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 16       | 3.81          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 19       | 3.81          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 20       | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 2        | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 2        | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 5        | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 5        | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 10       | 3.81          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 10       | 3.81          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 17       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 3        | 3.81          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 3        | 3.81          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 3        | 3.81          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 10       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 10       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 10       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 17       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 17       | 3.81          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 17       | 3.81          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 18       | 3.81          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 19       | 3.81          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 14       | 3.81          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 14       | 3.81          |
| (1,3282) | 1:A:15:ARG:HA   | 1:A:20:CYS:H   | 7        | 3.81          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 9        | 3.81          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 9        | 3.81          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 8        | 3.81          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 8        | 3.81          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 16       | 3.81          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 16       | 3.81          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 2        | 3.81          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 2        | 3.81          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H   | 14       | 3.81          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H   | 20       | 3.81          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 10       | 3.81          |
| (1,1396) | 1:A:5:GLY:H     | 1:A:7:CYS:HA   | 14       | 3.81          |
| (1,1396) | 1:A:5:GLY:H     | 1:A:7:CYS:HA   | 20       | 3.81          |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 3        | 3.81          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 4        | 3.81          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 4        | 3.81          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 20       | 3.8           |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 20       | 3.8           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 20       | 3.8           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 20       | 3.8           |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3 | 13       | 3.8           |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3 | 13       | 3.8           |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 4        | 3.8           |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 4        | 3.8           |
| (1,537)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HB3  | 16       | 3.8           |
| (1,537)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HB3  | 16       | 3.8           |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 11       | 3.8           |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 4        | 3.8           |
| (1,4863) | 1:A:31:LYS:HB2  | 1:A:35:HIS:H   | 7        | 3.8           |
| (1,4826) | 1:A:30:PRO:HG2  | 1:A:34:ALA:HA  | 5        | 3.8           |
| (1,4826) | 1:A:30:PRO:HG3  | 1:A:34:ALA:HA  | 5        | 3.8           |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 1        | 3.8           |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 1        | 3.8           |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD1 | 11       | 3.8           |
| (1,4810) | 1:A:30:PRO:HB3  | 1:A:32:TYR:HD2 | 11       | 3.8           |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3 | 15       | 3.8           |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 5        | 3.8           |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 5        | 3.8           |
| (1,4726) | 1:A:28:SER:H    | 1:A:31:LYS:HB2 | 15       | 3.8           |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 13       | 3.8           |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 3        | 3.8           |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 3        | 3.8           |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 6        | 3.8           |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 6        | 3.8           |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 13       | 3.8           |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 13       | 3.8           |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 18       | 3.8           |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 18       | 3.8           |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 18       | 3.8           |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 18       | 3.8           |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 20       | 3.8           |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 20       | 3.8           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 1        | 3.8           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 1        | 3.8           |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 15       | 3.8           |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 15       | 3.8           |
| (1,4290) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HB2  | 17       | 3.8           |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 2        | 3.8           |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 2        | 3.8           |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 1        | 3.8           |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 1        | 3.8           |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 11       | 3.8           |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 11       | 3.8           |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG   | 17       | 3.8           |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2  | 4        | 3.8           |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H    | 8        | 3.8           |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H    | 16       | 3.8           |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2  | 14       | 3.8           |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3  | 14       | 3.8           |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 5        | 3.8           |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 6        | 3.8           |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H    | 9        | 3.8           |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H    | 9        | 3.8           |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2  | 14       | 3.8           |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3  | 14       | 3.8           |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1  | 19       | 3.8           |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H    | 17       | 3.8           |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3  | 1        | 3.8           |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3  | 4        | 3.8           |
| (1,1396) | 1:A:5:GLY:H     | 1:A:7:CYS:HA    | 1        | 3.8           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 6        | 3.8           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 6        | 3.8           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 18       | 3.8           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 18       | 3.8           |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 7        | 3.79          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 7        | 3.79          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 7        | 3.79          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 7        | 3.79          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 7        | 3.79          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 7        | 3.79          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3  | 11       | 3.79          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3  | 11       | 3.79          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2   | 15       | 3.79          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2   | 15       | 3.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 15       | 3.79          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 15       | 3.79          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 3        | 3.79          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 3        | 3.79          |
| (1,4826) | 1:A:30:PRO:HG2  | 1:A:34:ALA:HA  | 9        | 3.79          |
| (1,4826) | 1:A:30:PRO:HG3  | 1:A:34:ALA:HA  | 9        | 3.79          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 10       | 3.79          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 10       | 3.79          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 10       | 3.79          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 8        | 3.79          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 8        | 3.79          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 12       | 3.79          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 12       | 3.79          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 19       | 3.79          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 19       | 3.79          |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3 | 1        | 3.79          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 3        | 3.79          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 6        | 3.79          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1 | 11       | 3.79          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2 | 11       | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 1        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 1        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 3        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 3        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 6        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 6        | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 11       | 3.79          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 11       | 3.79          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 17       | 3.79          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 11       | 3.79          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 11       | 3.79          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H   | 1        | 3.79          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 12       | 3.79          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 12       | 3.79          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 5        | 3.79          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 5        | 3.79          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 5        | 3.79          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 7        | 3.79          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 1        | 3.79          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 5        | 3.79          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 11       | 3.79          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 13       | 3.79          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 14       | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 2        | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 3        | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 5        | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 6        | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 10       | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 12       | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 13       | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 14       | 3.79          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 15       | 3.79          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 14       | 3.79          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 12       | 3.79          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 12       | 3.79          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 12       | 3.79          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 5        | 3.79          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 5        | 3.79          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 5        | 3.79          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 8        | 3.79          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 12       | 3.79          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 12       | 3.79          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 13       | 3.79          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 13       | 3.79          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 20       | 3.79          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 3        | 3.79          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 1        | 3.79          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 11       | 3.79          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 13       | 3.79          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 11       | 3.79          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 9        | 3.79          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 9        | 3.79          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 2        | 3.79          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 5        | 3.79          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 10       | 3.79          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB2 | 13       | 3.79          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB2 | 13       | 3.79          |
| (1,1985) | 1:A:7:CYS:HB2   | 1:A:15:ARG:HB3 | 13       | 3.79          |
| (1,1985) | 1:A:7:CYS:HB3   | 1:A:15:ARG:HB3 | 13       | 3.79          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 18       | 3.79          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 14       | 3.79          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 14       | 3.79          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 1        | 3.79          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 12       | 3.79          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H    | 18       | 3.79          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA    | 18       | 3.79          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA    | 19       | 3.79          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2  | 6        | 3.79          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3  | 6        | 3.79          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2  | 1        | 3.78          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3  | 1        | 3.78          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 5        | 3.78          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 5        | 3.78          |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 5        | 3.78          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 5        | 3.78          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 5        | 3.78          |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 5        | 3.78          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 7        | 3.78          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H    | 6        | 3.78          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H    | 6        | 3.78          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H    | 6        | 3.78          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2  | 19       | 3.78          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3  | 19       | 3.78          |
| (1,4770) | 1:A:29:GLY:H   | 1:A:35:HIS:HB3  | 10       | 3.78          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H    | 5        | 3.78          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1  | 1        | 3.78          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2  | 1        | 3.78          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1  | 9        | 3.78          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2  | 9        | 3.78          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H    | 2        | 3.78          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H    | 2        | 3.78          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H    | 15       | 3.78          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H    | 15       | 3.78          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 9        | 3.78          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 9        | 3.78          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 9        | 3.78          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 9        | 3.78          |
| (1,4409) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HA   | 13       | 3.78          |
| (1,4409) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HA   | 13       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 18       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 18       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 19       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 19       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1  | 20       | 3.78          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE2  | 20       | 3.78          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA   | 7        | 3.78          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 6        | 3.78          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 20       | 3.78          |
| (1,4062) | 1:A:21:SER:HB3  | 1:A:31:LYS:HG3 | 16       | 3.78          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3 | 17       | 3.78          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 11       | 3.78          |
| (1,3947) | 1:A:20:CYS:H    | 1:A:35:HIS:HA  | 17       | 3.78          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 2        | 3.78          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 8        | 3.78          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 10       | 3.78          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 15       | 3.78          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 1        | 3.78          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 8        | 3.78          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 11       | 3.78          |
| (1,3859) | 1:A:19:CYS:HA   | 1:A:26:CYS:H   | 12       | 3.78          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 1        | 3.78          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 1        | 3.78          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 3        | 3.78          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 3        | 3.78          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 3        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 7        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 7        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 7        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 9        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 9        | 3.78          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 9        | 3.78          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 14       | 3.78          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 16       | 3.78          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 1        | 3.78          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 7        | 3.78          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 7        | 3.78          |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3 | 11       | 3.78          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 4        | 3.78          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 6        | 3.78          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 11       | 3.78          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 11       | 3.78          |
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 3        | 3.78          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 3        | 3.78          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 7        | 3.78          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 16       | 3.78          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2 | 13       | 3.78          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3 | 13       | 3.78          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 11       | 3.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 15       | 3.78          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 6        | 3.78          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 7        | 3.78          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 8        | 3.78          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 15       | 3.78          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 19       | 3.77          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 19       | 3.77          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 19       | 3.77          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 19       | 3.77          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 7        | 3.77          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 7        | 3.77          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 7        | 3.77          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 7        | 3.77          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 14       | 3.77          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 14       | 3.77          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 14       | 3.77          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 14       | 3.77          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 8        | 3.77          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 14       | 3.77          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 14       | 3.77          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 4        | 3.77          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 4        | 3.77          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 4        | 3.77          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H   | 11       | 3.77          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 6        | 3.77          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1 | 15       | 3.77          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2 | 15       | 3.77          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3 | 15       | 3.77          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 18       | 3.77          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB2 | 9        | 3.77          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB3 | 9        | 3.77          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 5        | 3.77          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H   | 5        | 3.77          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB2 | 14       | 3.77          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB3 | 14       | 3.77          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2 | 7        | 3.77          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB2 | 7        | 3.77          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB3 | 7        | 3.77          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB3 | 7        | 3.77          |
| (1,4409) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HA  | 12       | 3.77          |
| (1,4409) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HA  | 12       | 3.77          |
| (1,4371) | 1:A:23:TYR:HA  | 1:A:32:TYR:HE1 | 16       | 3.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2 | 16       | 3.77          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 9        | 3.77          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 19       | 3.77          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 20       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 16       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 16       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 17       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 17       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 18       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 18       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 19       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 19       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 20       | 3.77          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 20       | 3.77          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 11       | 3.77          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 11       | 3.77          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 17       | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 7        | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 9        | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 16       | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 18       | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 19       | 3.77          |
| (1,3910) | 1:A:20:CYS:H    | 1:A:21:SER:HG  | 20       | 3.77          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 9        | 3.77          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 16       | 3.77          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 18       | 3.77          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 19       | 3.77          |
| (1,3909) | 1:A:20:CYS:H    | 1:A:21:SER:HB2 | 20       | 3.77          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 12       | 3.77          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 7        | 3.77          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 7        | 3.77          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 7        | 3.77          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 20       | 3.77          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 20       | 3.77          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 20       | 3.77          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 1        | 3.77          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 1        | 3.77          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 1        | 3.77          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 11       | 3.77          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 11       | 3.77          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 11       | 3.77          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 8        | 3.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3659) | 1:A:18:LEU:H   | 1:A:32:TYR:HB3 | 8        | 3.77          |
| (1,3650) | 1:A:18:LEU:H   | 1:A:26:CYS:HB2 | 8        | 3.77          |
| (1,3650) | 1:A:18:LEU:H   | 1:A:26:CYS:HB2 | 12       | 3.77          |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 4        | 3.77          |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 11       | 3.77          |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 13       | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 8        | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 8        | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 14       | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 14       | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 16       | 3.77          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 16       | 3.77          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 13       | 3.77          |
| (1,3221) | 1:A:14:CYS:HB2 | 1:A:33:CYS:HA  | 14       | 3.77          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 3        | 3.77          |
| (1,2747) | 1:A:11:TRP:HD1 | 1:A:24:GLY:HA2 | 13       | 3.77          |
| (1,2637) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HH2 | 13       | 3.77          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 3        | 3.77          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 13       | 3.77          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 13       | 3.77          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 1        | 3.77          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 8        | 3.77          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 12       | 3.77          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 17       | 3.77          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 17       | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 4        | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 9        | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 11       | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 12       | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 13       | 3.77          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 16       | 3.77          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 16       | 3.77          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 14       | 3.77          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2 | 19       | 3.77          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3 | 19       | 3.77          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 5        | 3.76          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 2        | 3.76          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 2        | 3.76          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 2        | 3.76          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 2        | 3.76          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 17       | 3.76          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 17       | 3.76          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 5        | 3.76          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 5        | 3.76          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 5        | 3.76          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 5        | 3.76          |
| (1,4889) | 1:A:31:LYS:HG3 | 1:A:35:HIS:H   | 9        | 3.76          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 10       | 3.76          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 17       | 3.76          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 9        | 3.76          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 9        | 3.76          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 9        | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 2        | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 2        | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 4        | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 4        | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 12       | 3.76          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 12       | 3.76          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 8        | 3.76          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 18       | 3.76          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 18       | 3.76          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 7        | 3.76          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H   | 7        | 3.76          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 9        | 3.76          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H   | 9        | 3.76          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB2 | 12       | 3.76          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB3 | 12       | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 1        | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 8        | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 12       | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 15       | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 16       | 3.76          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 18       | 3.76          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 13       | 3.76          |
| (1,4138) | 1:A:22:GLN:HA  | 1:A:25:TYR:HB2 | 13       | 3.76          |
| (1,4138) | 1:A:22:GLN:HA  | 1:A:25:TYR:HB3 | 13       | 3.76          |
| (1,4112) | 1:A:22:GLN:H   | 1:A:27:GLY:HA2 | 15       | 3.76          |
| (1,4112) | 1:A:22:GLN:H   | 1:A:27:GLY:HA3 | 15       | 3.76          |
| (1,4052) | 1:A:21:SER:HB2 | 1:A:33:CYS:H   | 3        | 3.76          |
| (1,4052) | 1:A:21:SER:HB2 | 1:A:33:CYS:H   | 6        | 3.76          |
| (1,3950) | 1:A:20:CYS:HB2 | 1:A:21:SER:HG  | 7        | 3.76          |
| (1,3950) | 1:A:20:CYS:HB2 | 1:A:21:SER:HG  | 12       | 3.76          |
| (1,3909) | 1:A:20:CYS:H   | 1:A:21:SER:HB2 | 7        | 3.76          |
| (1,3909) | 1:A:20:CYS:H   | 1:A:21:SER:HB2 | 17       | 3.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 12       | 3.76          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 12       | 3.76          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 13       | 3.76          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 13       | 3.76          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 15       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 18       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 18       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 18       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 19       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 19       | 3.76          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 19       | 3.76          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 6        | 3.76          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 14       | 3.76          |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3 | 1        | 3.76          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 7        | 3.76          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 12       | 3.76          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 20       | 3.76          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 11       | 3.76          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 11       | 3.76          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 17       | 3.76          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 17       | 3.76          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 15       | 3.76          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 17       | 3.76          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 9        | 3.76          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 9        | 3.76          |
| (1,1659) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HB3 | 11       | 3.76          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H   | 5        | 3.76          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H   | 16       | 3.76          |
| (1,1486) | 1:A:5:GLY:HA3   | 1:A:21:SER:H   | 19       | 3.76          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 3        | 3.76          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 5        | 3.76          |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 11       | 3.76          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE1 | 3        | 3.75          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE2 | 3        | 3.75          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE1 | 6        | 3.75          |
| (1,977)  | 1:A:3:PRO:HD2   | 1:A:25:TYR:HE2 | 6        | 3.75          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2 | 4        | 3.75          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3 | 4        | 3.75          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2  | 8        | 3.75          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 8        | 3.75          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 8        | 3.75          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 8        | 3.75          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,511)  | 1:A:1:SER:HA   | 1:A:11:TRP:HE1 | 9        | 3.75          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 5        | 3.75          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 1        | 3.75          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 3        | 3.75          |
| (1,4828) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HA  | 10       | 3.75          |
| (1,4828) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HA  | 10       | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 8        | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 8        | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 13       | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 13       | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD1 | 15       | 3.75          |
| (1,4810) | 1:A:30:PRO:HB3 | 1:A:32:TYR:HD2 | 15       | 3.75          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H   | 6        | 3.75          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 1        | 3.75          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 1        | 3.75          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 1        | 3.75          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 7        | 3.75          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 9        | 3.75          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 11       | 3.75          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB2 | 2        | 3.75          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB3 | 2        | 3.75          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB2 | 13       | 3.75          |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB3 | 13       | 3.75          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3 | 4        | 3.75          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB2 | 16       | 3.75          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB2 | 16       | 3.75          |
| (1,4410) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HB3 | 16       | 3.75          |
| (1,4410) | 1:A:23:TYR:HD2 | 1:A:32:TYR:HB3 | 16       | 3.75          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 11       | 3.75          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 13       | 3.75          |
| (1,4341) | 1:A:23:TYR:H   | 1:A:26:CYS:HA  | 14       | 3.75          |
| (1,4263) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HA  | 16       | 3.75          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 20       | 3.75          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 20       | 3.75          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 19       | 3.75          |
| (1,4138) | 1:A:22:GLN:HA  | 1:A:25:TYR:HB2 | 6        | 3.75          |
| (1,4138) | 1:A:22:GLN:HA  | 1:A:25:TYR:HB3 | 6        | 3.75          |
| (1,4130) | 1:A:22:GLN:H   | 1:A:35:HIS:H   | 5        | 3.75          |
| (1,4124) | 1:A:22:GLN:H   | 1:A:32:TYR:H   | 7        | 3.75          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3 | 14       | 3.75          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3 | 1        | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2 | 1:A:21:SER:HG  | 8        | 3.75          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 9        | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 15       | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 16       | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 18       | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 19       | 3.75          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 20       | 3.75          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 11       | 3.75          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 11       | 3.75          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 1        | 3.75          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 1        | 3.75          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 1        | 3.75          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 15       | 3.75          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 15       | 3.75          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 15       | 3.75          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 16       | 3.75          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 16       | 3.75          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 16       | 3.75          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 19       | 3.75          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 20       | 3.75          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 20       | 3.75          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 10       | 3.75          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 2        | 3.75          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 4        | 3.75          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 10       | 3.75          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 10       | 3.75          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 17       | 3.75          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 12       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 1        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 2        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 3        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 4        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 5        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 6        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 7        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 8        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 9        | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 10       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 11       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 12       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 14       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 16       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HH2 | 18       | 3.75          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2637) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HH2 | 19       | 3.75          |
| (1,2637) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HH2 | 20       | 3.75          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 2        | 3.75          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 9        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 1        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 1        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 4        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 4        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 7        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 7        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 8        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 8        | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 11       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 11       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 12       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 12       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 15       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 15       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 16       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 16       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 18       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 18       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 19       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 19       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB2  | 1:A:9:PRO:HA   | 20       | 3.75          |
| (1,1979) | 1:A:7:CYS:HB3  | 1:A:9:PRO:HA   | 20       | 3.75          |
| (1,1659) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HB3 | 17       | 3.75          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 6        | 3.75          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 2        | 3.75          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 2        | 3.75          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 3        | 3.75          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 17       | 3.75          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 12       | 3.75          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 6        | 3.75          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 13       | 3.75          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 12       | 3.74          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 12       | 3.74          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 15       | 3.74          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 15       | 3.74          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 4        | 3.74          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 4        | 3.74          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 4        | 3.74          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD22 | 4        | 3.74          |
| (1,511)  | 1:A:1:SER:HA    | 1:A:11:TRP:HE1 | 18       | 3.74          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3 | 9        | 3.74          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ1 | 20       | 3.74          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ2 | 20       | 3.74          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ3 | 20       | 3.74          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ1 | 20       | 3.74          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ2 | 20       | 3.74          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ3 | 20       | 3.74          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2 | 2        | 3.74          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3 | 2        | 3.74          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 1        | 3.74          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 17       | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 4        | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 4        | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 7        | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 7        | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2 | 15       | 3.74          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3 | 15       | 3.74          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 8        | 3.74          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 10       | 3.74          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 10       | 3.74          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 10       | 3.74          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 1        | 3.74          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 1        | 3.74          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 5        | 3.74          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 5        | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 3        | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 3        | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 4        | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 4        | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 11       | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 11       | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 12       | 3.74          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 12       | 3.74          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 11       | 3.74          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 12       | 3.74          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 3        | 3.74          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 4        | 3.74          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 6        | 3.74          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 11       | 3.74          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 14       | 3.74          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 4        | 3.74          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 4        | 3.74          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 4        | 3.74          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 3        | 3.74          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 3        | 3.74          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 3        | 3.74          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 12       | 3.74          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 12       | 3.74          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 12       | 3.74          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 18       | 3.74          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 7        | 3.74          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 2        | 3.74          |
| (1,3309) | 1:A:15:ARG:HB2  | 1:A:28:SER:HB3 | 11       | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 3        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 4        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 5        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 6        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 7        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 9        | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 10       | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 14       | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 16       | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 19       | 3.74          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 20       | 3.74          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 20       | 3.74          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 1        | 3.74          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 1        | 3.74          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB2 | 13       | 3.74          |
| (1,2029) | 1:A:8:GLY:H     | 1:A:14:CYS:HB3 | 13       | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 2        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 2        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 3        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 3        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 5        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 5        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 6        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 6        | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 10       | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 10       | 3.74          |
| (1,1979) | 1:A:7:CYS:HB2   | 1:A:9:PRO:HA   | 14       | 3.74          |
| (1,1979) | 1:A:7:CYS:HB3   | 1:A:9:PRO:HA   | 14       | 3.74          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 11       | 3.74          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 20       | 3.74          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 5        | 3.74          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 10       | 3.74          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 9        | 3.74          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 7        | 3.74          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 10       | 3.74          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 4        | 3.73          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 4        | 3.73          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 12       | 3.73          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 3        | 3.73          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 3        | 3.73          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 11       | 3.73          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 11       | 3.73          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 10       | 3.73          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 14       | 3.73          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 14       | 3.73          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 5        | 3.73          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 3        | 3.73          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 5        | 3.73          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 6        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 8        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 8        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 8        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 8        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 8        | 3.73          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 8        | 3.73          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 11       | 3.73          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 11       | 3.73          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 11       | 3.73          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H   | 19       | 3.73          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 16       | 3.73          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 16       | 3.73          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 16       | 3.73          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 7        | 3.73          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 9        | 3.73          |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H   | 13       | 3.73          |
| (1,4623) | 1:A:26:CYS:H   | 1:A:32:TYR:HB3 | 2        | 3.73          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 12       | 3.73          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H   | 12       | 3.73          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 14       | 3.73          |
| (1,4558) | 1:A:25:TYR:HD2 | 1:A:27:GLY:H   | 14       | 3.73          |
| (1,4558) | 1:A:25:TYR:HD1 | 1:A:27:GLY:H   | 19       | 3.73          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H    | 19       | 3.73          |
| (1,4262) | 1:A:22:GLN:HG3  | 1:A:32:TYR:H    | 17       | 3.73          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1  | 11       | 3.73          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3  | 4        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 1        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 1        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 8        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 8        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 9        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 9        | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 14       | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 14       | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2  | 15       | 3.73          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3  | 15       | 3.73          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 8        | 3.73          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 8        | 3.73          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 14       | 3.73          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 14       | 3.73          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3  | 14       | 3.73          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 19       | 3.73          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 19       | 3.73          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 14       | 3.73          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 1        | 3.73          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG   | 1        | 3.73          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG   | 13       | 3.73          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H    | 10       | 3.73          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H    | 14       | 3.73          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 14       | 3.73          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H    | 8        | 3.73          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H    | 8        | 3.73          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H    | 8        | 3.73          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3  | 8        | 3.73          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3  | 8        | 3.73          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3  | 8        | 3.73          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H    | 10       | 3.73          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2  | 7        | 3.73          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2  | 20       | 3.73          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2  | 9        | 3.73          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA   | 5        | 3.73          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H    | 3        | 3.73          |
| (1,3520) | 1:A:16:GLY:HA2  | 1:A:33:CYS:HB3  | 17       | 3.73          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2  | 8        | 3.73          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 2        | 3.73          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 14       | 3.73          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 14       | 3.73          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2 | 14       | 3.73          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3 | 14       | 3.73          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 8        | 3.73          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 12       | 3.73          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 18       | 3.73          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 14       | 3.73          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 19       | 3.73          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 4        | 3.73          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 4        | 3.73          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 8        | 3.73          |
| (1,1486) | 1:A:5:GLY:HA3  | 1:A:21:SER:H   | 10       | 3.73          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 2        | 3.73          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 5        | 3.73          |
| (1,1396) | 1:A:5:GLY:H    | 1:A:7:CYS:HA   | 6        | 3.73          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 2        | 3.73          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 5        | 3.73          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 10       | 3.73          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 19       | 3.73          |
| (1,1128) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HE3 | 11       | 3.73          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 14       | 3.73          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 2        | 3.73          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 2        | 3.73          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 10       | 3.73          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 10       | 3.73          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 14       | 3.72          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 20       | 3.72          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 13       | 3.72          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 13       | 3.72          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 20       | 3.72          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 20       | 3.72          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 2        | 3.72          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 10       | 3.72          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 10       | 3.72          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 15       | 3.72          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 15       | 3.72          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 15       | 3.72          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 15       | 3.72          |
| (1,530)  | 1:A:1:SER:HA   | 1:A:26:CYS:HB2 | 10       | 3.72          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 9        | 3.72          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 13       | 3.72          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB2 | 6        | 3.72          |
| (1,4886) | 1:A:31:LYS:HG3  | 1:A:33:CYS:HB3 | 6        | 3.72          |
| (1,4870) | 1:A:31:LYS:HG2  | 1:A:33:CYS:H   | 16       | 3.72          |
| (1,4826) | 1:A:30:PRO:HG2  | 1:A:34:ALA:HA  | 19       | 3.72          |
| (1,4826) | 1:A:30:PRO:HG3  | 1:A:34:ALA:HA  | 19       | 3.72          |
| (1,4826) | 1:A:30:PRO:HG2  | 1:A:34:ALA:HA  | 20       | 3.72          |
| (1,4826) | 1:A:30:PRO:HG3  | 1:A:34:ALA:HA  | 20       | 3.72          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H   | 9        | 3.72          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 15       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 8        | 3.72          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 8        | 3.72          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 10       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 10       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 18       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 18       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 20       | 3.72          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 20       | 3.72          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 2        | 3.72          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB2 | 7        | 3.72          |
| (1,4138) | 1:A:22:GLN:HA   | 1:A:25:TYR:HB3 | 7        | 3.72          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 20       | 3.72          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 17       | 3.72          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 13       | 3.72          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 13       | 3.72          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 20       | 3.72          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 20       | 3.72          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3 | 20       | 3.72          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 9        | 3.72          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 9        | 3.72          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 9        | 3.72          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 18       | 3.72          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 18       | 3.72          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 19       | 3.72          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 19       | 3.72          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 9        | 3.72          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 6        | 3.72          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 6        | 3.72          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 11       | 3.72          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 7        | 3.72          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 8        | 3.72          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 12       | 3.72          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 16       | 3.72          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 18       | 3.72          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 2        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 3        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 3        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 5        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 5        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 6        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 6        | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 10       | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 10       | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 13       | 3.72          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 13       | 3.72          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 6        | 3.72          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 18       | 3.72          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 13       | 3.72          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 13       | 3.72          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 1        | 3.72          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 3        | 3.71          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 7        | 3.71          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 16       | 3.71          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 8        | 3.71          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 8        | 3.71          |
| (1,537)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HB3  | 18       | 3.71          |
| (1,537)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HB3  | 18       | 3.71          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 17       | 3.71          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 17       | 3.71          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 17       | 3.71          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 17       | 3.71          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 13       | 3.71          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 13       | 3.71          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 15       | 3.71          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 15       | 3.71          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 6        | 3.71          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 6        | 3.71          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 18       | 3.71          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 18       | 3.71          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 17       | 3.71          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 17       | 3.71          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 17       | 3.71          |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 10       | 3.71          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H   | 5        | 3.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 1        | 3.71          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 16       | 3.71          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 18       | 3.71          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 19       | 3.71          |
| (1,4623) | 1:A:26:CYS:H    | 1:A:32:TYR:HB3 | 20       | 3.71          |
| (1,4558) | 1:A:25:TYR:HD1  | 1:A:27:GLY:H   | 16       | 3.71          |
| (1,4558) | 1:A:25:TYR:HD2  | 1:A:27:GLY:H   | 16       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 1        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 1        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 7        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 7        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 8        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 8        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 9        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 9        | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 11       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 11       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 15       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 15       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 18       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 18       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 19       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 19       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 20       | 3.71          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 20       | 3.71          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 2        | 3.71          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 2        | 3.71          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 8        | 3.71          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 8        | 3.71          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 8        | 3.71          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 8        | 3.71          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 4        | 3.71          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 5        | 3.71          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 6        | 3.71          |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA  | 17       | 3.71          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 7        | 3.71          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 7        | 3.71          |
| (1,4271) | 1:A:22:GLN:HG3  | 1:A:35:HIS:HE1 | 17       | 3.71          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 17       | 3.71          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 1        | 3.71          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 1        | 3.71          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 8        | 3.71          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 9        | 3.71          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 14       | 3.71          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 9        | 3.71          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 9        | 3.71          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 18       | 3.71          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 18       | 3.71          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 5        | 3.71          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 1        | 3.71          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 2        | 3.71          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 5        | 3.71          |
| (1,3950) | 1:A:20:CYS:HB2  | 1:A:21:SER:HG  | 10       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 14       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 14       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 15       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 15       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 17       | 3.71          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 17       | 3.71          |
| (1,3812) | 1:A:18:LEU:HD21 | 1:A:32:TYR:H   | 14       | 3.71          |
| (1,3812) | 1:A:18:LEU:HD22 | 1:A:32:TYR:H   | 14       | 3.71          |
| (1,3812) | 1:A:18:LEU:HD23 | 1:A:32:TYR:H   | 14       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 19       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 19       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 19       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 20       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 20       | 3.71          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 20       | 3.71          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 9        | 3.71          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 17       | 3.71          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 11       | 3.71          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 5        | 3.71          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 1        | 3.71          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 17       | 3.71          |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 3        | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 1        | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 1        | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 2        | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 2        | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 11       | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 11       | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 14       | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 14       | 3.71          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 15       | 3.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3  | 15       | 3.71          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2   | 7        | 3.71          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2   | 8        | 3.71          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2   | 16       | 3.71          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2   | 17       | 3.71          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2  | 5        | 3.71          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3  | 5        | 3.71          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H    | 2        | 3.71          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H    | 10       | 3.71          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H    | 12       | 3.71          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3  | 19       | 3.7           |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD21 | 11       | 3.7           |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD22 | 11       | 3.7           |
| (1,559)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HD23 | 11       | 3.7           |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD21 | 11       | 3.7           |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD22 | 11       | 3.7           |
| (1,559)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HD23 | 11       | 3.7           |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2  | 19       | 3.7           |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3  | 19       | 3.7           |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2  | 19       | 3.7           |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3  | 19       | 3.7           |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 2        | 3.7           |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 2        | 3.7           |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA   | 4        | 3.7           |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA   | 4        | 3.7           |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2  | 10       | 3.7           |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3  | 10       | 3.7           |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 2        | 3.7           |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 16       | 3.7           |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 16       | 3.7           |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3  | 16       | 3.7           |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB2  | 8        | 3.7           |
| (1,4735) | 1:A:28:SER:H   | 1:A:33:CYS:HB3  | 8        | 3.7           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1  | 8        | 3.7           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2  | 8        | 3.7           |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3  | 8        | 3.7           |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H    | 12       | 3.7           |
| (1,4651) | 1:A:26:CYS:HB2 | 1:A:28:SER:H    | 16       | 3.7           |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB2  | 13       | 3.7           |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB3  | 13       | 3.7           |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB2  | 16       | 3.7           |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB3  | 16       | 3.7           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3  | 2        | 3.7           |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3  | 2        | 3.7           |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE1  | 10       | 3.7           |
| (1,4371) | 1:A:23:TYR:HA   | 1:A:32:TYR:HE2  | 10       | 3.7           |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA   | 3        | 3.7           |
| (1,4341) | 1:A:23:TYR:H    | 1:A:26:CYS:HA   | 10       | 3.7           |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 8        | 3.7           |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H    | 3        | 3.7           |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3  | 18       | 3.7           |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 3        | 3.7           |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 3        | 3.7           |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 17       | 3.7           |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 17       | 3.7           |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 7        | 3.7           |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 8        | 3.7           |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 13       | 3.7           |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 15       | 3.7           |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H    | 3        | 3.7           |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H    | 8        | 3.7           |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 8        | 3.7           |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H    | 10       | 3.7           |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H    | 10       | 3.7           |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H    | 10       | 3.7           |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3  | 17       | 3.7           |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3  | 17       | 3.7           |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3  | 17       | 3.7           |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 12       | 3.7           |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2  | 18       | 3.7           |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2  | 19       | 3.7           |
| (1,3195) | 1:A:14:CYS:HB2  | 1:A:16:GLY:HA3  | 14       | 3.7           |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H    | 4        | 3.7           |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H    | 14       | 3.7           |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA   | 20       | 3.7           |
| (1,1246) | 1:A:4:ASN:HD21  | 1:A:5:GLY:HA2   | 12       | 3.7           |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H    | 5        | 3.7           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2  | 5        | 3.7           |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3  | 5        | 3.7           |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3   | 2        | 3.69          |
| (1,843)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ3  | 8        | 3.69          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2  | 20       | 3.69          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3  | 20       | 3.69          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H    | 2        | 3.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 4        | 3.69          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 12       | 3.69          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 14       | 3.69          |
| (1,4756) | 1:A:28:SER:HB3  | 1:A:33:CYS:H   | 15       | 3.69          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1 | 14       | 3.69          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2 | 14       | 3.69          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 11       | 3.69          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 18       | 3.69          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 19       | 3.69          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 20       | 3.69          |
| (1,4430) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HB3 | 14       | 3.69          |
| (1,4430) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HB3 | 14       | 3.69          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 16       | 3.69          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 16       | 3.69          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 15       | 3.69          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 5        | 3.69          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 5        | 3.69          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 15       | 3.69          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 17       | 3.69          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 3        | 3.69          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 11       | 3.69          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 16       | 3.69          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 18       | 3.69          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 19       | 3.69          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 20       | 3.69          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 16       | 3.69          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 16       | 3.69          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 9        | 3.69          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 1        | 3.69          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 11       | 3.69          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 13       | 3.69          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 13       | 3.69          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 13       | 3.69          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 18       | 3.69          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 18       | 3.69          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 18       | 3.69          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 15       | 3.69          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 15       | 3.69          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB2 | 16       | 3.69          |
| (1,3659) | 1:A:18:LEU:H    | 1:A:32:TYR:HB3 | 16       | 3.69          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 15       | 3.69          |
| (1,3228) | 1:A:14:CYS:HB3  | 1:A:17:GLY:HA3 | 14       | 3.69          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 15       | 3.69          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 16       | 3.69          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 4        | 3.69          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 4        | 3.69          |
| (1,2079) | 1:A:8:GLY:HA2  | 1:A:11:TRP:HE1 | 11       | 3.69          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 12       | 3.69          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 12       | 3.69          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 16       | 3.69          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 18       | 3.69          |
| (1,1531) | 1:A:6:GLN:H    | 1:A:26:CYS:HA  | 19       | 3.69          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD2 | 1        | 3.69          |
| (1,1414) | 1:A:5:GLY:H    | 1:A:15:ARG:HD3 | 1        | 3.69          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 8        | 3.69          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 11       | 3.69          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 13       | 3.69          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 15       | 3.69          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE1 | 14       | 3.68          |
| (1,977)  | 1:A:3:PRO:HD2  | 1:A:25:TYR:HE2 | 14       | 3.68          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 19       | 3.68          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 19       | 3.68          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 11       | 3.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 12       | 3.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 12       | 3.68          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 14       | 3.68          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 14       | 3.68          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 11       | 3.68          |
| (1,4864) | 1:A:31:LYS:HB2 | 1:A:35:HIS:HB3 | 7        | 3.68          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 20       | 3.68          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 20       | 3.68          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 17       | 3.68          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 8        | 3.68          |
| (1,4756) | 1:A:28:SER:HB3 | 1:A:33:CYS:H   | 13       | 3.68          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 8        | 3.68          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 8        | 3.68          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 12       | 3.68          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 12       | 3.68          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 12       | 3.68          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 12       | 3.68          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 12       | 3.68          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 12       | 3.68          |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 3        | 3.68          |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 3        | 3.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 11       | 3.68          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 6        | 3.68          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 3        | 3.68          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 3        | 3.68          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 10       | 3.68          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 16       | 3.68          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 1        | 3.68          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 2        | 3.68          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 9        | 3.68          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H   | 12       | 3.68          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 14       | 3.68          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 14       | 3.68          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 7        | 3.68          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 7        | 3.68          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD2 | 20       | 3.68          |
| (1,4064) | 1:A:21:SER:HB3  | 1:A:31:LYS:HD3 | 20       | 3.68          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3 | 14       | 3.68          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 4        | 3.68          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 9        | 3.68          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 18       | 3.68          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 2        | 3.68          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 2        | 3.68          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 2        | 3.68          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 14       | 3.68          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 6        | 3.68          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 20       | 3.68          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 10       | 3.68          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 10       | 3.68          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 2        | 3.68          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 2        | 3.68          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 10       | 3.68          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 10       | 3.68          |
| (1,2525) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HH2 | 15       | 3.68          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 1        | 3.68          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 13       | 3.68          |
| (1,2079) | 1:A:8:GLY:HA2   | 1:A:11:TRP:HE1 | 15       | 3.68          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 18       | 3.68          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 19       | 3.68          |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 9        | 3.68          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 5        | 3.67          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 5        | 3.67          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 6        | 3.67          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2   | 6        | 3.67          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2   | 10       | 3.67          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2   | 10       | 3.67          |
| (1,843)  | 1:A:3:PRO:HB3   | 1:A:11:TRP:HZ3  | 18       | 3.67          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2  | 7        | 3.67          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3  | 7        | 3.67          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2  | 18       | 3.67          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3  | 18       | 3.67          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD21 | 17       | 3.67          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD22 | 17       | 3.67          |
| (1,559)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HD23 | 17       | 3.67          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD21 | 17       | 3.67          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD22 | 17       | 3.67          |
| (1,559)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HD23 | 17       | 3.67          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2  | 5        | 3.67          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3  | 5        | 3.67          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 12       | 3.67          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 12       | 3.67          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB2  | 14       | 3.67          |
| (1,4735) | 1:A:28:SER:H    | 1:A:33:CYS:HB3  | 14       | 3.67          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA   | 10       | 3.67          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 18       | 3.67          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 18       | 3.67          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2  | 19       | 3.67          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3  | 19       | 3.67          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 17       | 3.67          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 17       | 3.67          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3  | 11       | 3.67          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H    | 4        | 3.67          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H    | 8        | 3.67          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H    | 13       | 3.67          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 12       | 3.67          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 12       | 3.67          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2  | 17       | 3.67          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 2        | 3.67          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 18       | 3.67          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 19       | 3.67          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 20       | 3.67          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 9        | 3.67          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA   | 16       | 3.67          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2  | 13       | 3.67          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H    | 17       | 3.67          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 16       | 3.67          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 16       | 3.67          |
| (1,3282) | 1:A:15:ARG:HA  | 1:A:20:CYS:H   | 16       | 3.67          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 3        | 3.67          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 3        | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 7        | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 7        | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 8        | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 8        | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 16       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 16       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 18       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 18       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 19       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 19       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB2 | 20       | 3.67          |
| (1,1560) | 1:A:6:GLN:HA   | 1:A:20:CYS:HB3 | 20       | 3.67          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 12       | 3.67          |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 17       | 3.67          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 2        | 3.66          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 2        | 3.66          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 3        | 3.66          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 3        | 3.66          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 14       | 3.66          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 14       | 3.66          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD1 | 5        | 3.66          |
| (1,644)  | 1:A:2:GLY:H    | 1:A:25:TYR:HD2 | 5        | 3.66          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 2        | 3.66          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 13       | 3.66          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 12       | 3.66          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 12       | 3.66          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 17       | 3.66          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 17       | 3.66          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 7        | 3.66          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 7        | 3.66          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3 | 7        | 3.66          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 3        | 3.66          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 2        | 3.66          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 2        | 3.66          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 4        | 3.66          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 4        | 3.66          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 13       | 3.66          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2  | 13       | 3.66          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1  | 15       | 3.66          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2  | 15       | 3.66          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA   | 19       | 3.66          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA   | 19       | 3.66          |
| (1,4396) | 1:A:23:TYR:HD1  | 1:A:27:GLY:HA3  | 14       | 3.66          |
| (1,4396) | 1:A:23:TYR:HD2  | 1:A:27:GLY:HA3  | 14       | 3.66          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 16       | 3.66          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 18       | 3.66          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 18       | 3.66          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 20       | 3.66          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1  | 11       | 3.66          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2  | 11       | 3.66          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1  | 12       | 3.66          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2  | 12       | 3.66          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2  | 17       | 3.66          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3  | 17       | 3.66          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 17       | 3.66          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 17       | 3.66          |
| (1,4124) | 1:A:22:GLN:H    | 1:A:32:TYR:H    | 15       | 3.66          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 18       | 3.66          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 18       | 3.66          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2  | 19       | 3.66          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3  | 19       | 3.66          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3  | 5        | 3.66          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1  | 16       | 3.66          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2  | 16       | 3.66          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 10       | 3.66          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 10       | 3.66          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H    | 16       | 3.66          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H    | 18       | 3.66          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2  | 8        | 3.66          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3  | 8        | 3.66          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG   | 20       | 3.66          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H    | 1        | 3.66          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA   | 12       | 3.66          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H    | 14       | 3.66          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 2        | 3.66          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 3        | 3.66          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 4        | 3.66          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 10       | 3.66          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 17       | 3.66          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3172) | 1:A:14:CYS:H    | 1:A:18:LEU:HG  | 10       | 3.66          |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 18       | 3.66          |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 19       | 3.66          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB2 | 9        | 3.66          |
| (1,1560) | 1:A:6:GLN:HA    | 1:A:20:CYS:HB3 | 9        | 3.66          |
| (1,1531) | 1:A:6:GLN:H     | 1:A:26:CYS:HA  | 7        | 3.66          |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 5        | 3.66          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB2 | 10       | 3.66          |
| (1,1090) | 1:A:4:ASN:H     | 1:A:25:TYR:HB3 | 10       | 3.66          |
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE1 | 3        | 3.65          |
| (1,930)  | 1:A:3:PRO:HG2   | 1:A:25:TYR:HE2 | 3        | 3.65          |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE1 | 3        | 3.65          |
| (1,930)  | 1:A:3:PRO:HG3   | 1:A:25:TYR:HE2 | 3        | 3.65          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 4        | 3.65          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 4        | 3.65          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 6        | 3.65          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2 | 9        | 3.65          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3 | 9        | 3.65          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3 | 1        | 3.65          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3 | 1        | 3.65          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD21 | 14       | 3.65          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD21 | 14       | 3.65          |
| (1,538)  | 1:A:1:SER:HB2   | 1:A:4:ASN:HD22 | 14       | 3.65          |
| (1,538)  | 1:A:1:SER:HB3   | 1:A:4:ASN:HD22 | 14       | 3.65          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 11       | 3.65          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 2        | 3.65          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 4        | 3.65          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 15       | 3.65          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 11       | 3.65          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 11       | 3.65          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 7        | 3.65          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 2        | 3.65          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 2        | 3.65          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 13       | 3.65          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 13       | 3.65          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 2        | 3.65          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 2        | 3.65          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 2        | 3.65          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 13       | 3.65          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 13       | 3.65          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 1        | 3.65          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 11       | 3.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4154) | 1:A:22:GLN:HA  | 1:A:35:HIS:HB2 | 11       | 3.65          |
| (1,4154) | 1:A:22:GLN:HA  | 1:A:35:HIS:HB3 | 11       | 3.65          |
| (1,4130) | 1:A:22:GLN:H   | 1:A:35:HIS:H   | 17       | 3.65          |
| (1,3821) | 1:A:19:CYS:H   | 1:A:21:SER:HG  | 18       | 3.65          |
| (1,3821) | 1:A:19:CYS:H   | 1:A:21:SER:HG  | 19       | 3.65          |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 18       | 3.65          |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 19       | 3.65          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 7        | 3.65          |
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 4        | 3.65          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 13       | 3.65          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 13       | 3.65          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 11       | 3.65          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 11       | 3.65          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 15       | 3.65          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 15       | 3.65          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 8        | 3.65          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 12       | 3.65          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 20       | 3.65          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 2        | 3.65          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 6        | 3.65          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 10       | 3.65          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 6        | 3.64          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 6        | 3.64          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 6        | 3.64          |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 6        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 1        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 1        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 7        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 7        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 8        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 8        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 9        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 9        | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 11       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 11       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 12       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 12       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 13       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 13       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 15       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3  | 1:A:5:GLY:HA2  | 15       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2  | 1:A:5:GLY:HA2  | 16       | 3.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 16       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 17       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 17       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 18       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 18       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 19       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 19       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG2   | 1:A:5:GLY:HA2  | 20       | 3.64          |
| (1,886)  | 1:A:3:PRO:HG3   | 1:A:5:GLY:HA2  | 20       | 3.64          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 2        | 3.64          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD1 | 14       | 3.64          |
| (1,644)  | 1:A:2:GLY:H     | 1:A:25:TYR:HD2 | 14       | 3.64          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 16       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 20       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 20       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 20       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 20       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 20       | 3.64          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 20       | 3.64          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 19       | 3.64          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 19       | 3.64          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 12       | 3.64          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 12       | 3.64          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H   | 20       | 3.64          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 11       | 3.64          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 11       | 3.64          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 7        | 3.64          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 7        | 3.64          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 5        | 3.64          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA2 | 20       | 3.64          |
| (1,4112) | 1:A:22:GLN:H    | 1:A:27:GLY:HA3 | 20       | 3.64          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 10       | 3.64          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 19       | 3.64          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 17       | 3.64          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 7        | 3.64          |
| (1,3821) | 1:A:19:CYS:H    | 1:A:21:SER:HG  | 16       | 3.64          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 10       | 3.64          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 10       | 3.64          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 10       | 3.64          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 15       | 3.64          |
| (1,3397) | 1:A:15:ARG:HD2  | 1:A:20:CYS:H   | 19       | 3.64          |
| (1,3397) | 1:A:15:ARG:HD3  | 1:A:20:CYS:H   | 19       | 3.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3172) | 1:A:14:CYS:H   | 1:A:18:LEU:HG  | 3        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 2        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 3        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 4        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 5        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 6        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 7        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 8        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 9        | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 10       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 12       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 14       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 16       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 18       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 19       | 3.64          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 20       | 3.64          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 15       | 3.64          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 7        | 3.64          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 10       | 3.64          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 11       | 3.64          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 11       | 3.64          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 11       | 3.64          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB2 | 2        | 3.64          |
| (1,1090) | 1:A:4:ASN:H    | 1:A:25:TYR:HB3 | 2        | 3.64          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 10       | 3.63          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 19       | 3.63          |
| (1,646)  | 1:A:2:GLY:H    | 1:A:26:CYS:H   | 17       | 3.63          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 1        | 3.63          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 1        | 3.63          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 1        | 3.63          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 1        | 3.63          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 3        | 3.63          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 3        | 3.63          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 3        | 3.63          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 3        | 3.63          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 8        | 3.63          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 3        | 3.63          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 3        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 1        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 1        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 1        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 1        | 3.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 1        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 1        | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 13       | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 13       | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 13       | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 13       | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 13       | 3.63          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 13       | 3.63          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 15       | 3.63          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 7        | 3.63          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 7        | 3.63          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 13       | 3.63          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 13       | 3.63          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 13       | 3.63          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 16       | 3.63          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 16       | 3.63          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 8        | 3.63          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 8        | 3.63          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 17       | 3.63          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 17       | 3.63          |
| (1,4052) | 1:A:21:SER:HB2  | 1:A:33:CYS:H   | 17       | 3.63          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 3        | 3.63          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 2        | 3.63          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 2        | 3.63          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 2        | 3.63          |
| (1,3765) | 1:A:18:LEU:HD11 | 1:A:21:SER:HB3 | 14       | 3.63          |
| (1,3765) | 1:A:18:LEU:HD12 | 1:A:21:SER:HB3 | 14       | 3.63          |
| (1,3765) | 1:A:18:LEU:HD13 | 1:A:21:SER:HB3 | 14       | 3.63          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 7        | 3.63          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 8        | 3.63          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA  | 20       | 3.63          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 5        | 3.63          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 6        | 3.63          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 3        | 3.63          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 4        | 3.63          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 10       | 3.63          |
| (1,2460) | 1:A:10:GLY:H    | 1:A:11:TRP:HE3 | 1        | 3.63          |
| (1,2460) | 1:A:10:GLY:H    | 1:A:11:TRP:HE3 | 11       | 3.63          |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 16       | 3.63          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA2 | 17       | 3.63          |
| (1,1622) | 1:A:6:GLN:HB3   | 1:A:10:GLY:HA3 | 17       | 3.63          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 2        | 3.63          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 6        | 3.63          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 7        | 3.63          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 16       | 3.63          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 1        | 3.63          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 1        | 3.63          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 15       | 3.63          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 15       | 3.63          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 5        | 3.62          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 8        | 3.62          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 16       | 3.62          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 16       | 3.62          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 16       | 3.62          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 16       | 3.62          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 12       | 3.62          |
| (1,4924) | 1:A:32:TYR:HB2  | 1:A:34:ALA:HA  | 14       | 3.62          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 2        | 3.62          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 2        | 3.62          |
| (1,4900) | 1:A:31:LYS:HB3  | 1:A:35:HIS:H   | 16       | 3.62          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 5        | 3.62          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 5        | 3.62          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 5        | 3.62          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 5        | 3.62          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA2 | 11       | 3.62          |
| (1,4274) | 1:A:22:GLN:HE21 | 1:A:24:GLY:HA3 | 11       | 3.62          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 9        | 3.62          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 9        | 3.62          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 2        | 3.62          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 6        | 3.62          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 12       | 3.62          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 11       | 3.62          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 6        | 3.62          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 6        | 3.62          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 9        | 3.62          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 9        | 3.62          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 20       | 3.62          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 20       | 3.62          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 13       | 3.62          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 13       | 3.62          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 13       | 3.62          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 13       | 3.62          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 17       | 3.62          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 8        | 3.62          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 9        | 3.62          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 15       | 3.62          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 2        | 3.62          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 10       | 3.62          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 1        | 3.62          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 1        | 3.62          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 5        | 3.62          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 10       | 3.62          |
| (1,1123) | 1:A:4:ASN:HB2   | 1:A:7:CYS:H    | 3        | 3.62          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 12       | 3.62          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 12       | 3.62          |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 8        | 3.62          |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 6        | 3.61          |
| (1,997)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HB3  | 10       | 3.61          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 7        | 3.61          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 12       | 3.61          |
| (1,4940) | 1:A:34:ALA:HA   | 1:A:35:HIS:HD2 | 17       | 3.61          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 8        | 3.61          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 15       | 3.61          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 15       | 3.61          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 15       | 3.61          |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3 | 10       | 3.61          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 4        | 3.61          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 4        | 3.61          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 4        | 3.61          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 16       | 3.61          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 6        | 3.61          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 6        | 3.61          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 17       | 3.61          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 20       | 3.61          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 17       | 3.61          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 17       | 3.61          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 8        | 3.61          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 18       | 3.61          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 2        | 3.61          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 18       | 3.61          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 18       | 3.61          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 19       | 3.61          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 19       | 3.61          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 15       | 3.61          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 3        | 3.61          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 11       | 3.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2 | 6        | 3.61          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3 | 6        | 3.61          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 17       | 3.61          |
| (1,2460) | 1:A:10:GLY:H   | 1:A:11:TRP:HE3 | 15       | 3.61          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 13       | 3.61          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 13       | 3.61          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 13       | 3.61          |
| (1,1561) | 1:A:6:GLN:HA   | 1:A:21:SER:H   | 17       | 3.61          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 5        | 3.61          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 13       | 3.61          |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE1 | 4        | 3.6           |
| (1,930)  | 1:A:3:PRO:HG2  | 1:A:25:TYR:HE2 | 4        | 3.6           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE1 | 4        | 3.6           |
| (1,930)  | 1:A:3:PRO:HG3  | 1:A:25:TYR:HE2 | 4        | 3.6           |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 17       | 3.6           |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 16       | 3.6           |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 16       | 3.6           |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 18       | 3.6           |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 11       | 3.6           |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 11       | 3.6           |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 18       | 3.6           |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 18       | 3.6           |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 18       | 3.6           |
| (1,4807) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HD2 | 12       | 3.6           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 17       | 3.6           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 17       | 3.6           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 17       | 3.6           |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 3        | 3.6           |
| (1,4430) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HB3 | 1        | 3.6           |
| (1,4430) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HB3 | 1        | 3.6           |
| (1,4249) | 1:A:22:GLN:HG3 | 1:A:25:TYR:H   | 15       | 3.6           |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 1        | 3.6           |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 1        | 3.6           |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD1 | 11       | 3.6           |
| (1,4223) | 1:A:22:GLN:HB3 | 1:A:25:TYR:HD2 | 11       | 3.6           |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1 | 6        | 3.6           |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2 | 6        | 3.6           |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1 | 20       | 3.6           |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2 | 20       | 3.6           |
| (1,4163) | 1:A:22:GLN:HB2 | 1:A:25:TYR:H   | 10       | 3.6           |
| (1,4163) | 1:A:22:GLN:HB2 | 1:A:25:TYR:H   | 15       | 3.6           |
| (1,4160) | 1:A:22:GLN:HG2 | 1:A:24:GLY:HA2 | 9        | 3.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 7        | 3.6           |
| (1,4125) | 1:A:22:GLN:H   | 1:A:32:TYR:HB2 | 4        | 3.6           |
| (1,3946) | 1:A:20:CYS:H   | 1:A:35:HIS:H   | 5        | 3.6           |
| (1,3943) | 1:A:20:CYS:H   | 1:A:33:CYS:H   | 10       | 3.6           |
| (1,3943) | 1:A:20:CYS:H   | 1:A:33:CYS:H   | 14       | 3.6           |
| (1,3829) | 1:A:19:CYS:H   | 1:A:25:TYR:HB2 | 16       | 3.6           |
| (1,3829) | 1:A:19:CYS:H   | 1:A:25:TYR:HB3 | 16       | 3.6           |
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 1        | 3.6           |
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 2        | 3.6           |
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 4        | 3.6           |
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 10       | 3.6           |
| (1,3649) | 1:A:18:LEU:H   | 1:A:26:CYS:HA  | 9        | 3.6           |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 1        | 3.6           |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 1        | 3.6           |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 12       | 3.6           |
| (1,1701) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HA  | 17       | 3.6           |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 3        | 3.6           |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 3        | 3.6           |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 20       | 3.6           |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 20       | 3.6           |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 6        | 3.6           |
| (1,1130) | 1:A:4:ASN:HB2  | 1:A:11:TRP:HZ3 | 11       | 3.6           |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 9        | 3.6           |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 16       | 3.59          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 18       | 3.59          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 2        | 3.59          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 8        | 3.59          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 8        | 3.59          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 8        | 3.59          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 8        | 3.59          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 15       | 3.59          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 10       | 3.59          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 10       | 3.59          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H   | 11       | 3.59          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H   | 11       | 3.59          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H   | 11       | 3.59          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 7        | 3.59          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 7        | 3.59          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 11       | 3.59          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 7        | 3.59          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 7        | 3.59          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 9        | 3.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 9        | 3.59          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 14       | 3.59          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 14       | 3.59          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 14       | 3.59          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 14       | 3.59          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 1        | 3.59          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 4        | 3.59          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 4        | 3.59          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 6        | 3.59          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 6        | 3.59          |
| (1,4434) | 1:A:23:TYR:HE1  | 1:A:32:TYR:HA  | 14       | 3.59          |
| (1,4434) | 1:A:23:TYR:HE2  | 1:A:32:TYR:HA  | 14       | 3.59          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 3        | 3.59          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 3        | 3.59          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 3        | 3.59          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 3        | 3.59          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 3        | 3.59          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 16       | 3.59          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1 | 14       | 3.59          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2 | 14       | 3.59          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 3        | 3.59          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 11       | 3.59          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 5        | 3.59          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 5        | 3.59          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 5        | 3.59          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 12       | 3.59          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB2 | 7        | 3.59          |
| (1,3829) | 1:A:19:CYS:H    | 1:A:25:TYR:HB3 | 7        | 3.59          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 9        | 3.59          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 3        | 3.59          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 6        | 3.59          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 14       | 3.59          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 7        | 3.59          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 7        | 3.59          |
| (1,1871) | 1:A:6:GLN:HE22  | 1:A:11:TRP:HE1 | 17       | 3.59          |
| (1,1658) | 1:A:6:GLN:HB3   | 1:A:25:TYR:H   | 9        | 3.59          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2  | 20       | 3.59          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3  | 20       | 3.59          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 2        | 3.59          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 7        | 3.58          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 12       | 3.58          |
| (1,711)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HD22 | 17       | 3.58          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2 | 6        | 3.58          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3 | 6        | 3.58          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 19       | 3.58          |
| (1,4885) | 1:A:31:LYS:HG3  | 1:A:33:CYS:H   | 10       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 11       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 11       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 16       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 16       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 19       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 19       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 20       | 3.58          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 20       | 3.58          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 4        | 3.58          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 4        | 3.58          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 19       | 3.58          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 19       | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 1        | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 1        | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 1        | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 3        | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 3        | 3.58          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 3        | 3.58          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 3        | 3.58          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 6        | 3.58          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 6        | 3.58          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 11       | 3.58          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 3        | 3.58          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 3        | 3.58          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 3        | 3.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 1        | 3.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 1        | 3.58          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 1        | 3.58          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 6        | 3.58          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 6        | 3.58          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1 | 20       | 3.58          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD1 | 14       | 3.58          |
| (1,4167) | 1:A:22:GLN:HB2  | 1:A:25:TYR:HD2 | 14       | 3.58          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 12       | 3.58          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 3        | 3.58          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 6        | 3.58          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 9        | 3.58          |
| (1,3645) | 1:A:18:LEU:H    | 1:A:20:CYS:H   | 5        | 3.58          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3645) | 1:A:18:LEU:H   | 1:A:20:CYS:H   | 6        | 3.58          |
| (1,3645) | 1:A:18:LEU:H   | 1:A:20:CYS:H   | 17       | 3.58          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 5        | 3.58          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 5        | 3.58          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 6        | 3.58          |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 6        | 3.58          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 16       | 3.58          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 16       | 3.58          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 19       | 3.58          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 19       | 3.58          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 7        | 3.58          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 16       | 3.58          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 18       | 3.58          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 19       | 3.58          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 15       | 3.58          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 4        | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 9        | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 9        | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 18       | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 18       | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 19       | 3.58          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 19       | 3.58          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 4        | 3.58          |
| (1,997)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HB3  | 5        | 3.57          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 11       | 3.57          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 13       | 3.57          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 13       | 3.57          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 13       | 3.57          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 13       | 3.57          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 13       | 3.57          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 17       | 3.57          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 17       | 3.57          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 17       | 3.57          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 17       | 3.57          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 13       | 3.57          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 15       | 3.57          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 9        | 3.57          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 18       | 3.57          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 14       | 3.57          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 14       | 3.57          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 6        | 3.57          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 6        | 3.57          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 6        | 3.57          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 2        | 3.57          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 2        | 3.57          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB1 | 11       | 3.57          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB2 | 11       | 3.57          |
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3 | 11       | 3.57          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 3        | 3.57          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 3        | 3.57          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 6        | 3.57          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 6        | 3.57          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 7        | 3.57          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG2 | 1        | 3.57          |
| (1,4763) | 1:A:29:GLY:H    | 1:A:31:LYS:HG3 | 1        | 3.57          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2 | 17       | 3.57          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3 | 17       | 3.57          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 18       | 3.57          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 18       | 3.57          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 18       | 3.57          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 18       | 3.57          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 13       | 3.57          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 13       | 3.57          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 13       | 3.57          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 13       | 3.57          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 14       | 3.57          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 14       | 3.57          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 13       | 3.57          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 1        | 3.57          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 3        | 3.57          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 5        | 3.57          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 7        | 3.57          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 11       | 3.57          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 5        | 3.57          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 4        | 3.57          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 15       | 3.57          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 15       | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 6        | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 6        | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 10       | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 10       | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 14       | 3.57          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 14       | 3.57          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 11       | 3.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 11       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 12       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 12       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 15       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 15       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 18       | 3.57          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 18       | 3.57          |
| (1,1871) | 1:A:6:GLN:HE22 | 1:A:11:TRP:HE1 | 9        | 3.57          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 1        | 3.57          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 4        | 3.57          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 18       | 3.57          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 18       | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 1        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 1        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 7        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 7        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 8        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 8        | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 16       | 3.57          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 16       | 3.57          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 20       | 3.56          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 20       | 3.56          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 20       | 3.56          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 20       | 3.56          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 16       | 3.56          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 16       | 3.56          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 16       | 3.56          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 16       | 3.56          |
| (1,4928) | 1:A:32:TYR:HD1 | 1:A:34:ALA:HA  | 8        | 3.56          |
| (1,4928) | 1:A:32:TYR:HD2 | 1:A:34:ALA:HA  | 8        | 3.56          |
| (1,4924) | 1:A:32:TYR:HB2 | 1:A:34:ALA:HA  | 8        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 7        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 7        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 7        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 7        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 7        | 3.56          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 7        | 3.56          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 15       | 3.56          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 5        | 3.56          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 5        | 3.56          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 6        | 3.56          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 6        | 3.56          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4769) | 1:A:29:GLY:H    | 1:A:34:ALA:HB3  | 6        | 3.56          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA   | 5        | 3.56          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3  | 18       | 3.56          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2  | 2        | 3.56          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3  | 2        | 3.56          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 5        | 3.56          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 5        | 3.56          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 5        | 3.56          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 5        | 3.56          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 10       | 3.56          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H    | 14       | 3.56          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 18       | 3.56          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 18       | 3.56          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2  | 6        | 3.56          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2  | 10       | 3.56          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2  | 13       | 3.56          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 17       | 3.56          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 3        | 3.56          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 3        | 3.56          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H    | 1        | 3.56          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H    | 20       | 3.56          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2  | 17       | 3.56          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3  | 17       | 3.56          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2  | 11       | 3.56          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3  | 11       | 3.56          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2  | 5        | 3.56          |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3  | 5        | 3.56          |
| (1,2460) | 1:A:10:GLY:H    | 1:A:11:TRP:HE3  | 17       | 3.56          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3  | 15       | 3.56          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2  | 1        | 3.56          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3  | 1        | 3.56          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2  | 13       | 3.56          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3  | 13       | 3.56          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2  | 20       | 3.56          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3  | 20       | 3.56          |
| (1,1722) | 1:A:6:GLN:HG2   | 1:A:26:CYS:H    | 20       | 3.56          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1  | 19       | 3.56          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2  | 19       | 3.56          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2   | 11       | 3.56          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3   | 11       | 3.56          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2   | 12       | 3.56          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3   | 12       | 3.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 15       | 3.56          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 15       | 3.56          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 20       | 3.56          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 4        | 3.55          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 4        | 3.55          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 19       | 3.55          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 19       | 3.55          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 19       | 3.55          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 19       | 3.55          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 9        | 3.55          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 9        | 3.55          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 11       | 3.55          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 11       | 3.55          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 11       | 3.55          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 11       | 3.55          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 11       | 3.55          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 1        | 3.55          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 6        | 3.55          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 12       | 3.55          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 5        | 3.55          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 5        | 3.55          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 5        | 3.55          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 5        | 3.55          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 5        | 3.55          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 3        | 3.55          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 16       | 3.55          |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 17       | 3.55          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB2 | 5        | 3.55          |
| (1,4465) | 1:A:24:GLY:HA2 | 1:A:26:CYS:HB3 | 5        | 3.55          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 1        | 3.55          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 1        | 3.55          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 1        | 3.55          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 1        | 3.55          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1 | 17       | 3.55          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2 | 17       | 3.55          |
| (1,4125) | 1:A:22:GLN:H   | 1:A:32:TYR:HB2 | 14       | 3.55          |
| (1,4125) | 1:A:22:GLN:H   | 1:A:32:TYR:HB2 | 17       | 3.55          |
| (1,4104) | 1:A:22:GLN:H   | 1:A:24:GLY:HA3 | 2        | 3.55          |
| (1,4104) | 1:A:22:GLN:H   | 1:A:24:GLY:HA3 | 5        | 3.55          |
| (1,4104) | 1:A:22:GLN:H   | 1:A:24:GLY:HA3 | 10       | 3.55          |
| (1,4063) | 1:A:21:SER:HB3 | 1:A:31:LYS:HB3 | 8        | 3.55          |
| (1,3943) | 1:A:20:CYS:H   | 1:A:33:CYS:H   | 4        | 3.55          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 12       | 3.55          |
| (1,3673) | 1:A:18:LEU:HA  | 1:A:33:CYS:H   | 7        | 3.55          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB2 | 14       | 3.55          |
| (1,3569) | 1:A:17:GLY:H   | 1:A:26:CYS:HB3 | 14       | 3.55          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 2        | 3.55          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 5        | 3.55          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 1        | 3.55          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 2        | 3.55          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 2        | 3.55          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 15       | 3.55          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 15       | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 8        | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 8        | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 9        | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 9        | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB2 | 13       | 3.55          |
| (1,1929) | 1:A:7:CYS:H    | 1:A:14:CYS:HB3 | 13       | 3.55          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 8        | 3.55          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 9        | 3.55          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 13       | 3.55          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 13       | 3.55          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 1        | 3.55          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 20       | 3.55          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 16       | 3.55          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 18       | 3.55          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 4        | 3.54          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 4        | 3.54          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 4        | 3.54          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 4        | 3.54          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 5        | 3.54          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 5        | 3.54          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 5        | 3.54          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 5        | 3.54          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 13       | 3.54          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 13       | 3.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 9        | 3.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 9        | 3.54          |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 9        | 3.54          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 17       | 3.54          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 17       | 3.54          |
| (1,4767) | 1:A:29:GLY:H   | 1:A:32:TYR:HA  | 17       | 3.54          |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 17       | 3.54          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3  | 17       | 3.54          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3  | 13       | 3.54          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H    | 7        | 3.54          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB2  | 10       | 3.54          |
| (1,4465) | 1:A:24:GLY:HA2  | 1:A:26:CYS:HB3  | 10       | 3.54          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2  | 20       | 3.54          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3  | 20       | 3.54          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2  | 20       | 3.54          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3  | 20       | 3.54          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2  | 2        | 3.54          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2  | 2        | 3.54          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3  | 2        | 3.54          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3  | 2        | 3.54          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1  | 13       | 3.54          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2  | 13       | 3.54          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2  | 16       | 3.54          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3  | 16       | 3.54          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H    | 13       | 3.54          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2  | 10       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 1        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 3        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 4        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 6        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 7        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 8        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 9        | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 11       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 13       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 14       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 15       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 16       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 18       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 19       | 3.54          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3  | 20       | 3.54          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 17       | 3.54          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 17       | 3.54          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H    | 9        | 3.54          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H    | 2        | 3.54          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H    | 8        | 3.54          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3  | 4        | 3.54          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3  | 4        | 3.54          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3  | 4        | 3.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 5        | 3.54          |
| (1,3705) | 1:A:18:LEU:HB3 | 1:A:20:CYS:HB2 | 6        | 3.54          |
| (1,3673) | 1:A:18:LEU:HA  | 1:A:33:CYS:H   | 2        | 3.54          |
| (1,3673) | 1:A:18:LEU:HA  | 1:A:33:CYS:H   | 4        | 3.54          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 9        | 3.54          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 9        | 3.54          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 9        | 3.54          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 9        | 3.54          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 4        | 3.54          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 4        | 3.54          |
| (1,2525) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HH2 | 13       | 3.54          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 1        | 3.54          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 11       | 3.54          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 13       | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 3        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 3        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 4        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 4        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 8        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 8        | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 12       | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 12       | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 18       | 3.54          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 18       | 3.54          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 15       | 3.54          |
| (1,1658) | 1:A:6:GLN:HB3  | 1:A:25:TYR:H   | 11       | 3.54          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 16       | 3.54          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 16       | 3.54          |
| (1,1123) | 1:A:4:ASN:HB2  | 1:A:7:CYS:H    | 15       | 3.54          |
| (1,843)  | 1:A:3:PRO:HB3  | 1:A:11:TRP:HZ3 | 9        | 3.53          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 18       | 3.53          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 18       | 3.53          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 18       | 3.53          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 18       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 1        | 3.53          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 1        | 3.53          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 1        | 3.53          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 1        | 3.53          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 9        | 3.53          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 9        | 3.53          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 9        | 3.53          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 9        | 3.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 10       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 10       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 10       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 10       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 11       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 11       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 11       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 11       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 13       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 13       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 13       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 13       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 20       | 3.53          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 20       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 20       | 3.53          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 20       | 3.53          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 9        | 3.53          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 20       | 3.53          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 13       | 3.53          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 13       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 14       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 14       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 14       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 14       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 14       | 3.53          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 14       | 3.53          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 13       | 3.53          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 13       | 3.53          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 20       | 3.53          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 1        | 3.53          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 9        | 3.53          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 11       | 3.53          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 6        | 3.53          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE2 | 15       | 3.53          |
| (1,4730) | 1:A:28:SER:H    | 1:A:31:LYS:HE3 | 15       | 3.53          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 20       | 3.53          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 20       | 3.53          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 16       | 3.53          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 2        | 3.53          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 2        | 3.53          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 8        | 3.53          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 8        | 3.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 9        | 3.53          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 9        | 3.53          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 10       | 3.53          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 10       | 3.53          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 15       | 3.53          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 15       | 3.53          |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 3        | 3.53          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 4        | 3.53          |
| (1,4160) | 1:A:22:GLN:HG2  | 1:A:24:GLY:HA2 | 15       | 3.53          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 8        | 3.53          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 15       | 3.53          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 16       | 3.53          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 16       | 3.53          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 13       | 3.53          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 15       | 3.53          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 16       | 3.53          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 11       | 3.53          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 11       | 3.53          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 11       | 3.53          |
| (1,3705) | 1:A:18:LEU:HB3  | 1:A:20:CYS:HB2 | 17       | 3.53          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 13       | 3.53          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 15       | 3.53          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 17       | 3.53          |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 11       | 3.53          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 20       | 3.53          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 8        | 3.53          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 2        | 3.53          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 5        | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 6        | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 6        | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 9        | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 9        | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 10       | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 10       | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 19       | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 19       | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 20       | 3.53          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 20       | 3.53          |
| (1,1923) | 1:A:7:CYS:H     | 1:A:11:TRP:HA  | 17       | 3.53          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 6        | 3.53          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 6        | 3.53          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 9        | 3.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 9        | 3.53          |
| (1,1092) | 1:A:4:ASN:H     | 1:A:26:CYS:H   | 19       | 3.53          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 2        | 3.52          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 2        | 3.52          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 2        | 3.52          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 2        | 3.52          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 7        | 3.52          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 7        | 3.52          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 7        | 3.52          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 7        | 3.52          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 6        | 3.52          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 18       | 3.52          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 18       | 3.52          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3 | 3        | 3.52          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 2        | 3.52          |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 2        | 3.52          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2 | 14       | 3.52          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 11       | 3.52          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 7        | 3.52          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 15       | 3.52          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 15       | 3.52          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 19       | 3.52          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 19       | 3.52          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 12       | 3.52          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 19       | 3.52          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 19       | 3.52          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 4        | 3.52          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 4        | 3.52          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 17       | 3.52          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 8        | 3.52          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 8        | 3.52          |
| (1,4104) | 1:A:22:GLN:H    | 1:A:24:GLY:HA3 | 12       | 3.52          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD2 | 8        | 3.52          |
| (1,4089) | 1:A:21:SER:HG   | 1:A:31:LYS:HD3 | 8        | 3.52          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 2        | 3.52          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 2        | 3.52          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE1 | 10       | 3.52          |
| (1,4057) | 1:A:21:SER:HB3  | 1:A:25:TYR:HE2 | 10       | 3.52          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 19       | 3.52          |
| (1,3717) | 1:A:18:LEU:HB3  | 1:A:29:GLY:H   | 14       | 3.52          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 6        | 3.52          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 10       | 3.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 2        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 2        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 5        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 5        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 7        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 7        | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB2 | 16       | 3.52          |
| (1,1953) | 1:A:7:CYS:H    | 1:A:23:TYR:HB3 | 16       | 3.52          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 1        | 3.52          |
| (1,1092) | 1:A:4:ASN:H    | 1:A:26:CYS:H   | 7        | 3.52          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 12       | 3.51          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 12       | 3.51          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 1        | 3.51          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 1        | 3.51          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 1        | 3.51          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 1        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 3        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 3        | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 3        | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 3        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 6        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 6        | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 6        | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 6        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 12       | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 12       | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 12       | 3.51          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 12       | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 7        | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 7        | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 7        | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 7        | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 7        | 3.51          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 7        | 3.51          |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA  | 11       | 3.51          |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA  | 11       | 3.51          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 17       | 3.51          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 4        | 3.51          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 4        | 3.51          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 19       | 3.51          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 19       | 3.51          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 19       | 3.51          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ1 | 19       | 3.51          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ2 | 19       | 3.51          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ3 | 19       | 3.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 5        | 3.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 5        | 3.51          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 5        | 3.51          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 18       | 3.51          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 9        | 3.51          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 9        | 3.51          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 11       | 3.51          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 11       | 3.51          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 10       | 3.51          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 16       | 3.51          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 5        | 3.51          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 18       | 3.51          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 19       | 3.51          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 20       | 3.51          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 19       | 3.51          |
| (1,4728) | 1:A:28:SER:H    | 1:A:31:LYS:HB3 | 20       | 3.51          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 5        | 3.51          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 8        | 3.51          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 12       | 3.51          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 14       | 3.51          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 15       | 3.51          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 3        | 3.51          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 3        | 3.51          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 15       | 3.51          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 5        | 3.51          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 5        | 3.51          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 3        | 3.51          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 3        | 3.51          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 13       | 3.51          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 13       | 3.51          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 19       | 3.51          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 1        | 3.51          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 11       | 3.51          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 12       | 3.51          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 10       | 3.51          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE1 | 14       | 3.51          |
| (1,3722) | 1:A:18:LEU:HB3  | 1:A:32:TYR:HE2 | 14       | 3.51          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 18       | 3.51          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 11       | 3.51          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 15       | 3.51          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 15       | 3.51          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 13       | 3.51          |
| (1,2297) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE1 | 4        | 3.51          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 14       | 3.5           |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 14       | 3.5           |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 14       | 3.5           |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 14       | 3.5           |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 2        | 3.5           |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 2        | 3.5           |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 8        | 3.5           |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 20       | 3.5           |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 20       | 3.5           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 2        | 3.5           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 2        | 3.5           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 2        | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 18       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 18       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 18       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 19       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 19       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 19       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB1 | 20       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB2 | 20       | 3.5           |
| (1,4769) | 1:A:29:GLY:H   | 1:A:34:ALA:HB3 | 20       | 3.5           |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 1        | 3.5           |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 1        | 3.5           |
| (1,4767) | 1:A:29:GLY:H   | 1:A:32:TYR:HA  | 13       | 3.5           |
| (1,4767) | 1:A:29:GLY:H   | 1:A:32:TYR:HA  | 14       | 3.5           |
| (1,4767) | 1:A:29:GLY:H   | 1:A:32:TYR:HA  | 15       | 3.5           |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 5        | 3.5           |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 8        | 3.5           |
| (1,4743) | 1:A:28:SER:HB2 | 1:A:32:TYR:H   | 18       | 3.5           |
| (1,4743) | 1:A:28:SER:HB2 | 1:A:32:TYR:H   | 19       | 3.5           |
| (1,4743) | 1:A:28:SER:HB2 | 1:A:32:TYR:H   | 20       | 3.5           |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 9        | 3.5           |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 13       | 3.5           |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 13       | 3.5           |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD1 | 20       | 3.5           |
| (1,4167) | 1:A:22:GLN:HB2 | 1:A:25:TYR:HD2 | 20       | 3.5           |
| (1,4163) | 1:A:22:GLN:HB2 | 1:A:25:TYR:H   | 8        | 3.5           |
| (1,4158) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HB3 | 6        | 3.5           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 9        | 3.5           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 12       | 3.5           |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 12       | 3.5           |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 9        | 3.5           |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 9        | 3.5           |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 9        | 3.5           |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 18       | 3.5           |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 7        | 3.5           |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 17       | 3.5           |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 8        | 3.5           |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 14       | 3.5           |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 14       | 3.5           |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 14       | 3.5           |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 1        | 3.5           |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 11       | 3.5           |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 7        | 3.5           |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 19       | 3.5           |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 1        | 3.5           |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 11       | 3.5           |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA2 | 3        | 3.5           |
| (1,2865) | 1:A:11:TRP:HE1  | 1:A:24:GLY:HA3 | 3        | 3.5           |
| (1,2460) | 1:A:10:GLY:H    | 1:A:11:TRP:HE3 | 13       | 3.5           |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 3        | 3.5           |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 17       | 3.5           |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 17       | 3.5           |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 17       | 3.5           |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 12       | 3.5           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 4        | 3.5           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 4        | 3.5           |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG2 | 11       | 3.5           |
| (1,1477) | 1:A:5:GLY:HA3   | 1:A:15:ARG:HG3 | 11       | 3.5           |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 2        | 3.49          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 15       | 3.49          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 15       | 3.49          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 15       | 3.49          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 15       | 3.49          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 17       | 3.49          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 17       | 3.49          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 17       | 3.49          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 17       | 3.49          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG2  | 18       | 3.49          |
| (1,535)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HG3  | 18       | 3.49          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG2  | 18       | 3.49          |
| (1,535)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HG3  | 18       | 3.49          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 1        | 3.49          |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 20       | 3.49          |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 20       | 3.49          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 17       | 3.49          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 17       | 3.49          |
| (1,4892) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HD2 | 20       | 3.49          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 12       | 3.49          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 20       | 3.49          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 20       | 3.49          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3 | 10       | 3.49          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 16       | 3.49          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 2        | 3.49          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 4        | 3.49          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 8        | 3.49          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 12       | 3.49          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 4        | 3.49          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 15       | 3.49          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 7        | 3.49          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 3        | 3.49          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 7        | 3.49          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 7        | 3.49          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 18       | 3.49          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 18       | 3.49          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 9        | 3.49          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 1        | 3.49          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 1        | 3.49          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 2        | 3.49          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 2        | 3.49          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 9        | 3.49          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 7        | 3.49          |
| (1,4009) | 1:A:20:CYS:HB3  | 1:A:35:HIS:H   | 20       | 3.49          |
| (1,3815) | 1:A:18:LEU:HD21 | 1:A:33:CYS:HB2 | 14       | 3.49          |
| (1,3815) | 1:A:18:LEU:HD22 | 1:A:33:CYS:HB2 | 14       | 3.49          |
| (1,3815) | 1:A:18:LEU:HD23 | 1:A:33:CYS:HB2 | 14       | 3.49          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 13       | 3.49          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 15       | 3.49          |
| (1,3405) | 1:A:15:ARG:HD2  | 1:A:27:GLY:H   | 1        | 3.49          |
| (1,3405) | 1:A:15:ARG:HD3  | 1:A:27:GLY:H   | 1        | 3.49          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 10       | 3.49          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 10       | 3.49          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 10       | 3.49          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 10       | 3.49          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 16       | 3.49          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 16       | 3.49          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 13       | 3.49          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 13       | 3.49          |
| (1,1924) | 1:A:7:CYS:H    | 1:A:11:TRP:HE3 | 17       | 3.49          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 8        | 3.49          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 9        | 3.49          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 11       | 3.49          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 16       | 3.49          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB2 | 3        | 3.49          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB3 | 3        | 3.49          |
| (1,1722) | 1:A:6:GLN:HG2  | 1:A:26:CYS:H   | 11       | 3.49          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 14       | 3.49          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 17       | 3.49          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 17       | 3.49          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 14       | 3.49          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 14       | 3.49          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 8        | 3.49          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 8        | 3.49          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 4        | 3.48          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 17       | 3.48          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 11       | 3.48          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 11       | 3.48          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 19       | 3.48          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 19       | 3.48          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 14       | 3.48          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H   | 16       | 3.48          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H   | 16       | 3.48          |
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H   | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 16       | 3.48          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 16       | 3.48          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA  | 10       | 3.48          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2 | 16       | 3.48          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3 | 16       | 3.48          |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 12       | 3.48          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 2        | 3.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 4        | 3.48          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 9        | 3.48          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 6        | 3.48          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB2 | 14       | 3.48          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB2 | 14       | 3.48          |
| (1,4410) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HB3 | 14       | 3.48          |
| (1,4410) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HB3 | 14       | 3.48          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 10       | 3.48          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 10       | 3.48          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 14       | 3.48          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 18       | 3.48          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 9        | 3.48          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 13       | 3.48          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 14       | 3.48          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 2        | 3.48          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 2        | 3.48          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 17       | 3.48          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 13       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 1        | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 7        | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 8        | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 11       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 12       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 13       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 14       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 15       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 16       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 18       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 19       | 3.48          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 20       | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 7        | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 8        | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 16       | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 18       | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 19       | 3.48          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 20       | 3.48          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 1        | 3.48          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 1        | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 1        | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 4        | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 7        | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 13       | 3.48          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 18       | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 19       | 3.48          |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 20       | 3.48          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 2        | 3.48          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 2        | 3.48          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 2        | 3.47          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 2        | 3.47          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 6        | 3.47          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 6        | 3.47          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 10       | 3.47          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 10       | 3.47          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 5        | 3.47          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 5        | 3.47          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 16       | 3.47          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 16       | 3.47          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 20       | 3.47          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 20       | 3.47          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 3        | 3.47          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 3        | 3.47          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG2  | 2        | 3.47          |
| (1,535)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HG3  | 2        | 3.47          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG2  | 2        | 3.47          |
| (1,535)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HG3  | 2        | 3.47          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 17       | 3.47          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 17       | 3.47          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 17       | 3.47          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 17       | 3.47          |
| (1,508)  | 1:A:1:SER:HA   | 1:A:6:GLN:HG3  | 10       | 3.47          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 9        | 3.47          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 10       | 3.47          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 10       | 3.47          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2 | 1        | 3.47          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3 | 1        | 3.47          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 7        | 3.47          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 7        | 3.47          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 14       | 3.47          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 14       | 3.47          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 17       | 3.47          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 1        | 3.47          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 3        | 3.47          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 6        | 3.47          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 11       | 3.47          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 17       | 3.47          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H   | 1        | 3.47          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 5        | 3.47          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 9        | 3.47          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 19       | 3.47          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 11       | 3.47          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 1        | 3.47          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 8        | 3.47          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 10       | 3.47          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 20       | 3.47          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 13       | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 2        | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 3        | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 4        | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 6        | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 9        | 3.47          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 17       | 3.47          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 13       | 3.47          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 13       | 3.47          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 6        | 3.47          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 15       | 3.47          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 5        | 3.47          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 10       | 3.47          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 5        | 3.46          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 5        | 3.46          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 16       | 3.46          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 16       | 3.46          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 16       | 3.46          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 16       | 3.46          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 6        | 3.46          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 6        | 3.46          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 9        | 3.46          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 9        | 3.46          |
| (1,4830) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HE1 | 20       | 3.46          |
| (1,4830) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HE1 | 20       | 3.46          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 2        | 3.46          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 8        | 3.46          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 5        | 3.46          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 18       | 3.46          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H   | 3        | 3.46          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 11       | 3.46          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 14       | 3.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 1        | 3.46          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 17       | 3.46          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 6        | 3.46          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 6        | 3.46          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 6        | 3.46          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 16       | 3.46          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 16       | 3.46          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 16       | 3.46          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 16       | 3.46          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 16       | 3.46          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 16       | 3.46          |
| (1,3653) | 1:A:18:LEU:H    | 1:A:28:SER:H   | 16       | 3.46          |
| (1,3226) | 1:A:14:CYS:HB3  | 1:A:15:ARG:HE  | 10       | 3.46          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 15       | 3.46          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 5        | 3.46          |
| (1,2369) | 1:A:9:PRO:HG3   | 1:A:12:GLY:H   | 10       | 3.46          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 9        | 3.46          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 20       | 3.46          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 9        | 3.46          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 15       | 3.46          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 15       | 3.46          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB2 | 14       | 3.46          |
| (1,1953) | 1:A:7:CYS:H     | 1:A:23:TYR:HB3 | 14       | 3.46          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 11       | 3.46          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 11       | 3.46          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 2        | 3.46          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 3        | 3.46          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 10       | 3.46          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 2        | 3.46          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 2        | 3.46          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 10       | 3.46          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 10       | 3.46          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 2        | 3.46          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 6        | 3.46          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 10       | 3.46          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 10       | 3.46          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 17       | 3.46          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 16       | 3.45          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 16       | 3.45          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 19       | 3.45          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 19       | 3.45          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 7        | 3.45          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 7        | 3.45          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 7        | 3.45          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 7        | 3.45          |
| (1,549)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HZ3 | 7        | 3.45          |
| (1,549)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HZ3 | 7        | 3.45          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 10       | 3.45          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 10       | 3.45          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 1        | 3.45          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 1        | 3.45          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 3        | 3.45          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 3        | 3.45          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 7        | 3.45          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 9        | 3.45          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 4        | 3.45          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 14       | 3.45          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 6        | 3.45          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 16       | 3.45          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 16       | 3.45          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 2        | 3.45          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 6        | 3.45          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 13       | 3.45          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 17       | 3.45          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 1        | 3.45          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 11       | 3.45          |
| (1,3814) | 1:A:18:LEU:HD21 | 1:A:33:CYS:H   | 14       | 3.45          |
| (1,3814) | 1:A:18:LEU:HD22 | 1:A:33:CYS:H   | 14       | 3.45          |
| (1,3814) | 1:A:18:LEU:HD23 | 1:A:33:CYS:H   | 14       | 3.45          |
| (1,3764) | 1:A:18:LEU:HD11 | 1:A:21:SER:H   | 14       | 3.45          |
| (1,3764) | 1:A:18:LEU:HD12 | 1:A:21:SER:H   | 14       | 3.45          |
| (1,3764) | 1:A:18:LEU:HD13 | 1:A:21:SER:H   | 14       | 3.45          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3 | 6        | 3.45          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 1        | 3.45          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 14       | 3.45          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 12       | 3.45          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 1        | 3.45          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 1        | 3.45          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 9        | 3.45          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 9        | 3.45          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 11       | 3.45          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 11       | 3.45          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 5        | 3.45          |
| (1,1790) | 1:A:6:GLN:HE21  | 1:A:7:CYS:H    | 14       | 3.45          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 5        | 3.45          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 5        | 3.45          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 18       | 3.45          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 18       | 3.45          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 7        | 3.44          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 7        | 3.44          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 18       | 3.44          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 18       | 3.44          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 10       | 3.44          |
| (1,609)  | 1:A:2:GLY:H     | 1:A:11:TRP:HE1 | 17       | 3.44          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 3        | 3.44          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 17       | 3.44          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 12       | 3.44          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 7        | 3.44          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 7        | 3.44          |
| (1,4828) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HA  | 14       | 3.44          |
| (1,4828) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HA  | 14       | 3.44          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 4        | 3.44          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 4        | 3.44          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 7        | 3.44          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 7        | 3.44          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 18       | 3.44          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 11       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 19       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 19       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 19       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 19       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 19       | 3.44          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 19       | 3.44          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 13       | 3.44          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 17       | 3.44          |
| (1,3324) | 1:A:15:ARG:HB3  | 1:A:19:CYS:HA  | 16       | 3.44          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 7        | 3.44          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 8        | 3.44          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 12       | 3.44          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 13       | 3.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2297) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE1 | 18       | 3.44          |
| (1,2297) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE1 | 19       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 2        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 2        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 3        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 3        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 4        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 4        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 7        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 7        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 8        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 8        | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 10       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 10       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 12       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 12       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 14       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 14       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 16       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 16       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 18       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 18       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 19       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 19       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB2  | 1:A:10:GLY:H   | 20       | 3.44          |
| (1,1980) | 1:A:7:CYS:HB3  | 1:A:10:GLY:H   | 20       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 16       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 16       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 19       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 19       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB2 | 20       | 3.44          |
| (1,1094) | 1:A:4:ASN:H    | 1:A:26:CYS:HB3 | 20       | 3.44          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 2        | 3.44          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 3        | 3.44          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 6        | 3.44          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 8        | 3.43          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 8        | 3.43          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 1        | 3.43          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 3        | 3.43          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 11       | 3.43          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 12       | 3.43          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 12       | 3.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 3        | 3.43          |
| (1,4651) | 1:A:26:CYS:HB2  | 1:A:28:SER:H   | 14       | 3.43          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 4        | 3.43          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 4        | 3.43          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 8        | 3.43          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 8        | 3.43          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 2        | 3.43          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 2        | 3.43          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 3        | 3.43          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 12       | 3.43          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 12       | 3.43          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2 | 16       | 3.43          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 12       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 20       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 20       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 20       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 20       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 20       | 3.43          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 20       | 3.43          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 11       | 3.43          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 20       | 3.43          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 15       | 3.43          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 14       | 3.43          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 14       | 3.43          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 1        | 3.43          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 1        | 3.43          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 11       | 3.43          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 16       | 3.43          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 5        | 3.43          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 5        | 3.43          |
| (1,1980) | 1:A:7:CYS:HB2   | 1:A:10:GLY:H   | 6        | 3.43          |
| (1,1980) | 1:A:7:CYS:HB3   | 1:A:10:GLY:H   | 6        | 3.43          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB2 | 17       | 3.43          |
| (1,1663) | 1:A:6:GLN:HB3   | 1:A:26:CYS:HB3 | 17       | 3.43          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 5        | 3.43          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 12       | 3.42          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 12       | 3.42          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 10       | 3.42          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB2 | 10       | 3.42          |
| (1,648)  | 1:A:2:GLY:H     | 1:A:26:CYS:HB3 | 10       | 3.42          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 14       | 3.42          |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 14       | 3.42          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 14       | 3.42          |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 14       | 3.42          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 4        | 3.42          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 16       | 3.42          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 16       | 3.42          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 14       | 3.42          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 14       | 3.42          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 18       | 3.42          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 19       | 3.42          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 20       | 3.42          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ1 | 3        | 3.42          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ2 | 3        | 3.42          |
| (1,4766) | 1:A:29:GLY:H    | 1:A:31:LYS:HZ3 | 3        | 3.42          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 5        | 3.42          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 6        | 3.42          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 2        | 3.42          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 9        | 3.42          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 10       | 3.42          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 20       | 3.42          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 4        | 3.42          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 4        | 3.42          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 18       | 3.42          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 18       | 3.42          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 4        | 3.42          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 4        | 3.42          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 16       | 3.42          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 18       | 3.42          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 19       | 3.42          |
| (1,4125) | 1:A:22:GLN:H    | 1:A:32:TYR:HB2 | 20       | 3.42          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 2        | 3.42          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 7        | 3.42          |
| (1,3209) | 1:A:14:CYS:HB2  | 1:A:27:GLY:HA2 | 10       | 3.42          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 3        | 3.42          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 4        | 3.42          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB2 | 7        | 3.42          |
| (1,1094) | 1:A:4:ASN:H     | 1:A:26:CYS:HB3 | 7        | 3.42          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 4        | 3.42          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 10       | 3.42          |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 4        | 3.41          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 4        | 3.41          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 3        | 3.41          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 3        | 3.41          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 20       | 3.41          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 20       | 3.41          |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 13       | 3.41          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 13       | 3.41          |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 14       | 3.41          |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 14       | 3.41          |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 14       | 3.41          |
| (1,4881) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HA  | 10       | 3.41          |
| (1,4870) | 1:A:31:LYS:HG2  | 1:A:33:CYS:H   | 7        | 3.41          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 5        | 3.41          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 5        | 3.41          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 12       | 3.41          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 12       | 3.41          |
| (1,4767) | 1:A:29:GLY:H    | 1:A:32:TYR:HA  | 16       | 3.41          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 11       | 3.41          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 10       | 3.41          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 1        | 3.41          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 11       | 3.41          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 16       | 3.41          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 18       | 3.41          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 19       | 3.41          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 14       | 3.41          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 14       | 3.41          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 17       | 3.41          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 10       | 3.41          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 10       | 3.41          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 10       | 3.41          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 6        | 3.41          |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 6        | 3.41          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 5        | 3.41          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 5        | 3.41          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 12       | 3.41          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 12       | 3.41          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H   | 7        | 3.41          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 3        | 3.41          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 3        | 3.41          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD1 | 6        | 3.41          |
| (1,4139) | 1:A:22:GLN:HA   | 1:A:25:TYR:HD2 | 6        | 3.41          |
| (1,4063) | 1:A:21:SER:HB3  | 1:A:31:LYS:HB3 | 4        | 3.41          |
| (1,3946) | 1:A:20:CYS:H    | 1:A:35:HIS:H   | 20       | 3.41          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 3        | 3.41          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 3        | 3.41          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 3        | 3.41          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 6        | 3.41          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 18       | 3.41          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 18       | 3.41          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 18       | 3.41          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 18       | 3.41          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 18       | 3.41          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 18       | 3.41          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 3        | 3.41          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 4        | 3.41          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 7        | 3.41          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 9        | 3.41          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 12       | 3.41          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 16       | 3.41          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 18       | 3.41          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 19       | 3.41          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 18       | 3.41          |
| (1,3654) | 1:A:18:LEU:H    | 1:A:29:GLY:H   | 19       | 3.41          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 12       | 3.41          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 9        | 3.41          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 9        | 3.41          |
| (1,2297) | 1:A:9:PRO:HG2   | 1:A:11:TRP:HE1 | 15       | 3.41          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 3        | 3.41          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 3        | 3.41          |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 13       | 3.41          |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 14       | 3.41          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 13       | 3.41          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2  | 4        | 3.41          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3  | 4        | 3.41          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 4        | 3.4           |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 4        | 3.4           |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 13       | 3.4           |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 13       | 3.4           |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 1        | 3.4           |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 15       | 3.4           |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 6        | 3.4           |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 1        | 3.4           |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 1        | 3.4           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 5        | 3.4           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 5        | 3.4           |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 19       | 3.4           |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 10       | 3.4           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 10       | 3.4           |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2 | 8        | 3.4           |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3 | 8        | 3.4           |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG2 | 18       | 3.4           |
| (1,4838) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HG3 | 18       | 3.4           |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 11       | 3.4           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 11       | 3.4           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 11       | 3.4           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 8        | 3.4           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 8        | 3.4           |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 17       | 3.4           |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 10       | 3.4           |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 3        | 3.4           |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 3        | 3.4           |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 8        | 3.4           |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 8        | 3.4           |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 8        | 3.4           |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 8        | 3.4           |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 12       | 3.4           |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 12       | 3.4           |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 13       | 3.4           |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 13       | 3.4           |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 1        | 3.4           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 17       | 3.4           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 17       | 3.4           |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 17       | 3.4           |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 2        | 3.4           |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 2        | 3.4           |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD1 | 4        | 3.4           |
| (1,4223) | 1:A:22:GLN:HB3  | 1:A:25:TYR:HD2 | 4        | 3.4           |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 1        | 3.4           |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 1        | 3.4           |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 10       | 3.4           |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 10       | 3.4           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 6        | 3.4           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 6        | 3.4           |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 5        | 3.4           |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 5        | 3.4           |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 5        | 3.4           |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 2        | 3.4           |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 15       | 3.4           |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 14       | 3.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3359) | 1:A:15:ARG:HG2 | 1:A:19:CYS:H   | 11       | 3.4           |
| (1,3359) | 1:A:15:ARG:HG3 | 1:A:19:CYS:H   | 11       | 3.4           |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 3        | 3.4           |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB2 | 14       | 3.4           |
| (1,3098) | 1:A:13:GLY:H   | 1:A:20:CYS:HB3 | 14       | 3.4           |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 20       | 3.4           |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 20       | 3.4           |
| (1,2297) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE1 | 1        | 3.4           |
| (1,2297) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HE1 | 11       | 3.4           |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 1        | 3.4           |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 1        | 3.4           |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 4        | 3.4           |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 4        | 3.4           |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 14       | 3.4           |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 14       | 3.4           |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 11       | 3.39          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 11       | 3.39          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 14       | 3.39          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 14       | 3.39          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 6        | 3.39          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 15       | 3.39          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 9        | 3.39          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 2        | 3.39          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 2        | 3.39          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 18       | 3.39          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 18       | 3.39          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 11       | 3.39          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 11       | 3.39          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 9        | 3.39          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 9        | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 2        | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 2        | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 4        | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 4        | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 13       | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 13       | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 15       | 3.39          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 15       | 3.39          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 1        | 3.39          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 7        | 3.39          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1 | 4        | 3.39          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2 | 4        | 3.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4711) | 1:A:27:GLY:HA3  | 1:A:31:LYS:HZ3 | 4        | 3.39          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 5        | 3.39          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 6        | 3.39          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 6        | 3.39          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 8        | 3.39          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 8        | 3.39          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 15       | 3.39          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 15       | 3.39          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE1 | 10       | 3.39          |
| (1,4199) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HE2 | 10       | 3.39          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 7        | 3.39          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 16       | 3.39          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 18       | 3.39          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 20       | 3.39          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 9        | 3.39          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 15       | 3.39          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 15       | 3.39          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 15       | 3.39          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 20       | 3.39          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 15       | 3.39          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA2 | 11       | 3.39          |
| (1,3272) | 1:A:15:ARG:H    | 1:A:27:GLY:HA3 | 11       | 3.39          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 14       | 3.39          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 11       | 3.39          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 11       | 3.39          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 1        | 3.39          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 17       | 3.39          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2  | 3        | 3.39          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3  | 3        | 3.39          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 11       | 3.38          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 13       | 3.38          |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 16       | 3.38          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 4        | 3.38          |
| (1,508)  | 1:A:1:SER:HA    | 1:A:6:GLN:HG3  | 5        | 3.38          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2 | 8        | 3.38          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3 | 8        | 3.38          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 8        | 3.38          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 8        | 3.38          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 8        | 3.38          |
| (1,4732) | 1:A:28:SER:H    | 1:A:32:TYR:HA  | 9        | 3.38          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ1 | 4        | 3.38          |
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ2 | 4        | 3.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4731) | 1:A:28:SER:H    | 1:A:31:LYS:HZ3 | 4        | 3.38          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 2        | 3.38          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 4        | 3.38          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 5        | 3.38          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 5        | 3.38          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 11       | 3.38          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 14       | 3.38          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 14       | 3.38          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 13       | 3.38          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 7        | 3.38          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 8        | 3.38          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 8        | 3.38          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 9        | 3.38          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 17       | 3.38          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 16       | 3.38          |
| (1,3943) | 1:A:20:CYS:H    | 1:A:33:CYS:H   | 19       | 3.38          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 12       | 3.38          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 12       | 3.38          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 14       | 3.38          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 14       | 3.38          |
| (1,3800) | 1:A:18:LEU:HD21 | 1:A:21:SER:H   | 17       | 3.38          |
| (1,3800) | 1:A:18:LEU:HD22 | 1:A:21:SER:H   | 17       | 3.38          |
| (1,3800) | 1:A:18:LEU:HD23 | 1:A:21:SER:H   | 17       | 3.38          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 8        | 3.38          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 16       | 3.38          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 8        | 3.38          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 1        | 3.38          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 10       | 3.38          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 2        | 3.38          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 2        | 3.38          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 10       | 3.38          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 10       | 3.38          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 15       | 3.38          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 15       | 3.38          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB2 | 14       | 3.38          |
| (1,1929) | 1:A:7:CYS:H     | 1:A:14:CYS:HB3 | 14       | 3.38          |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 17       | 3.38          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB2  | 2        | 3.38          |
| (1,1397) | 1:A:5:GLY:H     | 1:A:7:CYS:HB3  | 2        | 3.38          |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 3        | 3.37          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 3        | 3.37          |
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG2  | 15       | 3.37          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,751)  | 1:A:3:PRO:HA    | 1:A:6:GLN:HG3  | 15       | 3.37          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 5        | 3.37          |
| (1,4926) | 1:A:32:TYR:HB3  | 1:A:35:HIS:H   | 18       | 3.37          |
| (1,4870) | 1:A:31:LYS:HG2  | 1:A:33:CYS:H   | 13       | 3.37          |
| (1,4828) | 1:A:30:PRO:HG2  | 1:A:35:HIS:HA  | 8        | 3.37          |
| (1,4828) | 1:A:30:PRO:HG3  | 1:A:35:HIS:HA  | 8        | 3.37          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 19       | 3.37          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 10       | 3.37          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 10       | 3.37          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 12       | 3.37          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 17       | 3.37          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 4        | 3.37          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 4        | 3.37          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 17       | 3.37          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 17       | 3.37          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 9        | 3.37          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 9        | 3.37          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 9        | 3.37          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 9        | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 3        | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 3        | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 6        | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 6        | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 10       | 3.37          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 10       | 3.37          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 15       | 3.37          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 18       | 3.37          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 19       | 3.37          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 20       | 3.37          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 15       | 3.37          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 12       | 3.37          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 2        | 3.37          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 3        | 3.37          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 4        | 3.37          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 10       | 3.37          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 18       | 3.37          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 17       | 3.37          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 5        | 3.37          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 9        | 3.37          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 20       | 3.37          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 5        | 3.37          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 5        | 3.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 20       | 3.37          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 20       | 3.37          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 20       | 3.37          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 20       | 3.37          |
| (1,3291) | 1:A:15:ARG:HB2 | 1:A:19:CYS:HA  | 14       | 3.37          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H   | 17       | 3.37          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 4        | 3.37          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 6        | 3.37          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 2        | 3.37          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 6        | 3.37          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 6        | 3.37          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 14       | 3.37          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 14       | 3.37          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 7        | 3.37          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 11       | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 5        | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 5        | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 6        | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 6        | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 10       | 3.37          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 10       | 3.37          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 1        | 3.36          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 1        | 3.36          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 9        | 3.36          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 9        | 3.36          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 7        | 3.36          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 20       | 3.36          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 1        | 3.36          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2 | 7        | 3.36          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3 | 7        | 3.36          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 5        | 3.36          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 5        | 3.36          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 8        | 3.36          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 8        | 3.36          |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 15       | 3.36          |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 15       | 3.36          |
| (1,4767) | 1:A:29:GLY:H   | 1:A:32:TYR:HA  | 10       | 3.36          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 14       | 3.36          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 2        | 3.36          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 4        | 3.36          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 8        | 3.36          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 12       | 3.36          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H    | 13       | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2  | 2        | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3  | 2        | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2  | 5        | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3  | 5        | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2  | 12       | 3.36          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3  | 12       | 3.36          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2  | 14       | 3.36          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3  | 14       | 3.36          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2  | 14       | 3.36          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3  | 14       | 3.36          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA   | 14       | 3.36          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA   | 14       | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2  | 1        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3  | 1        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2  | 7        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3  | 7        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2  | 9        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3  | 9        | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2  | 11       | 3.36          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3  | 11       | 3.36          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 18       | 3.36          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA   | 14       | 3.36          |
| (1,4210) | 1:A:22:GLN:HG2  | 1:A:35:HIS:H    | 20       | 3.36          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2  | 6        | 3.36          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3  | 6        | 3.36          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE21 | 15       | 3.36          |
| (1,4055) | 1:A:21:SER:HB3  | 1:A:22:GLN:HE22 | 15       | 3.36          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H    | 5        | 3.36          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H    | 13       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1  | 10       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2  | 10       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1  | 10       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2  | 10       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1  | 10       | 3.36          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2  | 10       | 3.36          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA   | 3        | 3.36          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H    | 18       | 3.36          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H    | 19       | 3.36          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H    | 19       | 3.36          |
| (1,3649) | 1:A:18:LEU:H    | 1:A:26:CYS:HA   | 14       | 3.36          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG   | 6        | 3.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3452) | 1:A:16:GLY:H   | 1:A:18:LEU:HB3 | 7        | 3.36          |
| (1,3452) | 1:A:16:GLY:H   | 1:A:18:LEU:HB3 | 15       | 3.36          |
| (1,3452) | 1:A:16:GLY:H   | 1:A:18:LEU:HB3 | 16       | 3.36          |
| (1,3452) | 1:A:16:GLY:H   | 1:A:18:LEU:HB3 | 18       | 3.36          |
| (1,3452) | 1:A:16:GLY:H   | 1:A:18:LEU:HB3 | 19       | 3.36          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 18       | 3.36          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 18       | 3.36          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 18       | 3.36          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 18       | 3.36          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 2        | 3.36          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 15       | 3.36          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG2 | 8        | 3.36          |
| (1,3050) | 1:A:12:GLY:HA3 | 1:A:15:ARG:HG3 | 8        | 3.36          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 4        | 3.36          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 13       | 3.36          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 16       | 3.36          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 18       | 3.36          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 19       | 3.36          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 14       | 3.35          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 18       | 3.35          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 5        | 3.35          |
| (1,554)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HE  | 20       | 3.35          |
| (1,554)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HE  | 20       | 3.35          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 8        | 3.35          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 8        | 3.35          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 14       | 3.35          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 8        | 3.35          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 14       | 3.35          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 11       | 3.35          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 14       | 3.35          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 15       | 3.35          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 10       | 3.35          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB3 | 10       | 3.35          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 13       | 3.35          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB3 | 13       | 3.35          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG2 | 20       | 3.35          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG2 | 20       | 3.35          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG3 | 20       | 3.35          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG3 | 20       | 3.35          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA  | 2        | 3.35          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD1 | 9        | 3.35          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD2 | 9        | 3.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 8        | 3.35          |
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 12       | 3.35          |
| (1,3882) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HE1 | 5        | 3.35          |
| (1,3882) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HE2 | 5        | 3.35          |
| (1,3692) | 1:A:18:LEU:HB2 | 1:A:28:SER:H   | 6        | 3.35          |
| (1,3689) | 1:A:18:LEU:HB2 | 1:A:26:CYS:H   | 6        | 3.35          |
| (1,3689) | 1:A:18:LEU:HB2 | 1:A:26:CYS:H   | 7        | 3.35          |
| (1,3654) | 1:A:18:LEU:H   | 1:A:29:GLY:H   | 16       | 3.35          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG  | 11       | 3.35          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA2 | 13       | 3.35          |
| (1,3272) | 1:A:15:ARG:H   | 1:A:27:GLY:HA3 | 13       | 3.35          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 5        | 3.35          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 5        | 3.35          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 5        | 3.35          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 13       | 3.35          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 13       | 3.35          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 3        | 3.35          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 3        | 3.35          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 14       | 3.35          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 8        | 3.35          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 12       | 3.35          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 17       | 3.34          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 11       | 3.34          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 12       | 3.34          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 15       | 3.34          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 5        | 3.34          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 5        | 3.34          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 5        | 3.34          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 5        | 3.34          |
| (1,549)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HZ3 | 9        | 3.34          |
| (1,549)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HZ3 | 9        | 3.34          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 4        | 3.34          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 4        | 3.34          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 9        | 3.34          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 12       | 3.34          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 13       | 3.34          |
| (1,4732) | 1:A:28:SER:H   | 1:A:32:TYR:HA  | 15       | 3.34          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 1        | 3.34          |
| (1,4643) | 1:A:26:CYS:HA  | 1:A:32:TYR:HA  | 8        | 3.34          |
| (1,4643) | 1:A:26:CYS:HA  | 1:A:32:TYR:HA  | 14       | 3.34          |
| (1,4643) | 1:A:26:CYS:HA  | 1:A:32:TYR:HA  | 15       | 3.34          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 1        | 3.34          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 1        | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 7        | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 7        | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 8        | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 8        | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 11       | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 11       | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 15       | 3.34          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 15       | 3.34          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 11       | 3.34          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 11       | 3.34          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 10       | 3.34          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 5        | 3.34          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 5        | 3.34          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 5        | 3.34          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 5        | 3.34          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 5        | 3.34          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 5        | 3.34          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 4        | 3.34          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 5        | 3.34          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2 | 18       | 3.34          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3 | 18       | 3.34          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 3        | 3.34          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 5        | 3.34          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 12       | 3.34          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 12       | 3.34          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 17       | 3.34          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 15       | 3.34          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 20       | 3.34          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 3        | 3.33          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 14       | 3.33          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 20       | 3.33          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 19       | 3.33          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 19       | 3.33          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 3        | 3.33          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 9        | 3.33          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 9        | 3.33          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 9        | 3.33          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 14       | 3.33          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 14       | 3.33          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 20       | 3.33          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 7        | 3.33          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 7        | 3.33          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 17       | 3.33          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 17       | 3.33          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 5        | 3.33          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 5        | 3.33          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 5        | 3.33          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 4        | 3.33          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 4        | 3.33          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 3        | 3.33          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 15       | 3.33          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 14       | 3.33          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 17       | 3.33          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 17       | 3.33          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 15       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 1        | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 11       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 12       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 12       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 12       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 12       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 12       | 3.33          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 12       | 3.33          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 10       | 3.33          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 5        | 3.33          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 15       | 3.33          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 10       | 3.33          |
| (1,3419) | 1:A:15:ARG:HE   | 1:A:16:GLY:H   | 7        | 3.33          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 15       | 3.33          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 15       | 3.33          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 15       | 3.33          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 15       | 3.33          |
| (1,3291) | 1:A:15:ARG:HB2  | 1:A:19:CYS:HA  | 11       | 3.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2024) | 1:A:8:GLY:H    | 1:A:10:GLY:HA3 | 13       | 3.33          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 8        | 3.33          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 8        | 3.33          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 20       | 3.33          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 20       | 3.33          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 2        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 2        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 4        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 4        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 5        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 5        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 6        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 6        | 3.33          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 10       | 3.33          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 10       | 3.33          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 5        | 3.33          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 5        | 3.33          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 6        | 3.33          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 19       | 3.33          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 20       | 3.33          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB2  | 17       | 3.33          |
| (1,1397) | 1:A:5:GLY:H    | 1:A:7:CYS:HB3  | 17       | 3.33          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 20       | 3.33          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 20       | 3.33          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG2  | 17       | 3.32          |
| (1,751)  | 1:A:3:PRO:HA   | 1:A:6:GLN:HG3  | 17       | 3.32          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 4        | 3.32          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 19       | 3.32          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 12       | 3.32          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 1        | 3.32          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA  | 12       | 3.32          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 7        | 3.32          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 10       | 3.32          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 10       | 3.32          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 10       | 3.32          |
| (1,4743) | 1:A:28:SER:HB2 | 1:A:32:TYR:H   | 6        | 3.32          |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 16       | 3.32          |
| (1,4685) | 1:A:27:GLY:H   | 1:A:32:TYR:H   | 19       | 3.32          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 7        | 3.32          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 16       | 3.32          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 18       | 3.32          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 19       | 3.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 18       | 3.32          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 18       | 3.32          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 18       | 3.32          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 18       | 3.32          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 19       | 3.32          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 19       | 3.32          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 7        | 3.32          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 14       | 3.32          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 14       | 3.32          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB2 | 5        | 3.32          |
| (1,4131) | 1:A:22:GLN:H    | 1:A:35:HIS:HB3 | 5        | 3.32          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 8        | 3.32          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 8        | 3.32          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 1        | 3.32          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 16       | 3.32          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 20       | 3.32          |
| (1,3193) | 1:A:14:CYS:HB2  | 1:A:15:ARG:HE  | 7        | 3.32          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2 | 12       | 3.32          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3 | 12       | 3.32          |
| (1,2043) | 1:A:8:GLY:H     | 1:A:20:CYS:HB3 | 6        | 3.32          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 1        | 3.32          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 11       | 3.32          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 15       | 3.32          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 19       | 3.32          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 9        | 3.32          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 9        | 3.32          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 6        | 3.32          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 10       | 3.32          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 7        | 3.32          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 8        | 3.32          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 12       | 3.32          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 18       | 3.32          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 13       | 3.32          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 13       | 3.32          |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 2        | 3.31          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 2        | 3.31          |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 20       | 3.31          |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 20       | 3.31          |
| (1,4940) | 1:A:34:ALA:HA   | 1:A:35:HIS:HD2 | 14       | 3.31          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 12       | 3.31          |
| (1,4881) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HA  | 1        | 3.31          |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA  | 15       | 3.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 5        | 3.31          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 18       | 3.31          |
| (1,4685) | 1:A:27:GLY:H    | 1:A:32:TYR:H   | 20       | 3.31          |
| (1,4643) | 1:A:26:CYS:HA   | 1:A:32:TYR:HA  | 13       | 3.31          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 17       | 3.31          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 17       | 3.31          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 9        | 3.31          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 4        | 3.31          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 4        | 3.31          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 4        | 3.31          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 4        | 3.31          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 16       | 3.31          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 16       | 3.31          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 16       | 3.31          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 16       | 3.31          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 5        | 3.31          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 14       | 3.31          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 14       | 3.31          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 16       | 3.31          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 16       | 3.31          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 13       | 3.31          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 3        | 3.31          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 7        | 3.31          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 7        | 3.31          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 3        | 3.31          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 3        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 8        | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 15       | 3.31          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 15       | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 15       | 3.31          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 15       | 3.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 15       | 3.31          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 15       | 3.31          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 2        | 3.31          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 5        | 3.31          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 17       | 3.31          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 8        | 3.31          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 9        | 3.31          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 4        | 3.31          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 5        | 3.31          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 9        | 3.31          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 9        | 3.31          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 9        | 3.31          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 9        | 3.31          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 5        | 3.31          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 6        | 3.31          |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 9        | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 3        | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 7        | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 8        | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 9        | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 12       | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 14       | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 16       | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 18       | 3.31          |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 20       | 3.31          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 18       | 3.31          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 18       | 3.31          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 19       | 3.31          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 19       | 3.31          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 10       | 3.31          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 9        | 3.31          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 16       | 3.31          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 11       | 3.31          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 11       | 3.31          |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 8        | 3.3           |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 6        | 3.3           |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 6        | 3.3           |
| (1,544)  | 1:A:1:SER:HB2   | 1:A:11:TRP:H   | 3        | 3.3           |
| (1,544)  | 1:A:1:SER:HB3   | 1:A:11:TRP:H   | 3        | 3.3           |
| (1,4926) | 1:A:32:TYR:HB3  | 1:A:35:HIS:H   | 7        | 3.3           |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB2 | 5        | 3.3           |
| (1,4891) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HB3 | 5        | 3.3           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA   | 6        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ1  | 9        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ2  | 9        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ3  | 9        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ1  | 9        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ2  | 9        | 3.3           |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ3  | 9        | 3.3           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1  | 7        | 3.3           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2  | 7        | 3.3           |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1  | 8        | 3.3           |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2  | 8        | 3.3           |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3  | 8        | 3.3           |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2  | 6        | 3.3           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2  | 14       | 3.3           |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA   | 8        | 3.3           |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA   | 14       | 3.3           |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2  | 16       | 3.3           |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3  | 16       | 3.3           |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 8        | 3.3           |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 16       | 3.3           |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2  | 17       | 3.3           |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H    | 4        | 3.3           |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H    | 6        | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 1        | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 1        | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 4        | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 4        | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 10       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 10       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 11       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 11       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 16       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 16       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 18       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 18       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 19       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 19       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 20       | 3.3           |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 20       | 3.3           |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H    | 8        | 3.3           |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA   | 10       | 3.3           |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H    | 1        | 3.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 12       | 3.3           |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 2        | 3.3           |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 3        | 3.3           |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 4        | 3.3           |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 10       | 3.3           |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 2        | 3.3           |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 6        | 3.3           |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 10       | 3.3           |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 7        | 3.3           |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 6        | 3.3           |
| (1,2747) | 1:A:11:TRP:HD1  | 1:A:24:GLY:HA2 | 17       | 3.3           |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 2        | 3.3           |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 5        | 3.3           |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 6        | 3.3           |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 10       | 3.3           |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 2        | 3.3           |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 4        | 3.3           |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 5        | 3.3           |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 6        | 3.3           |
| (1,2024) | 1:A:8:GLY:H     | 1:A:10:GLY:HA3 | 10       | 3.3           |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG  | 7        | 3.3           |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG  | 7        | 3.3           |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 2        | 3.3           |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 2        | 3.3           |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 15       | 3.3           |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 18       | 3.3           |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 18       | 3.3           |
| (1,716)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HD1 | 1        | 3.29          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2  | 9        | 3.29          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 9        | 3.29          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 9        | 3.29          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 9        | 3.29          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 7        | 3.29          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 7        | 3.29          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 13       | 3.29          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2 | 11       | 3.29          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3 | 11       | 3.29          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 18       | 3.29          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 17       | 3.29          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 1        | 3.29          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 15       | 3.29          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 15       | 3.29          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 15       | 3.29          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 11       | 3.29          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 6        | 3.29          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 6        | 3.29          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE1 | 10       | 3.29          |
| (1,4168) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HE2 | 10       | 3.29          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 3        | 3.29          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 6        | 3.29          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 17       | 3.29          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 11       | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 2        | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 2        | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 9        | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 9        | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 13       | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 13       | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1 | 15       | 3.29          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2 | 15       | 3.29          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 4        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 7        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 9        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 9        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 9        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 9        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 9        | 3.29          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 9        | 3.29          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 13       | 3.29          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 16       | 3.29          |
| (1,3673) | 1:A:18:LEU:HA   | 1:A:33:CYS:H   | 14       | 3.29          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 17       | 3.29          |
| (1,3591) | 1:A:17:GLY:HA2  | 1:A:19:CYS:H   | 14       | 3.29          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 18       | 3.29          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 20       | 3.29          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 8        | 3.29          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 8        | 3.29          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 8        | 3.29          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 8        | 3.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H   | 8        | 3.29          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H   | 20       | 3.29          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 3        | 3.29          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 4        | 3.29          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 13       | 3.29          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 17       | 3.29          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 2        | 3.29          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 3        | 3.29          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 5        | 3.29          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 6        | 3.29          |
| (1,2024) | 1:A:8:GLY:H    | 1:A:10:GLY:HA3 | 17       | 3.29          |
| (1,1996) | 1:A:7:CYS:HB2  | 1:A:21:SER:HG  | 16       | 3.29          |
| (1,1996) | 1:A:7:CYS:HB3  | 1:A:21:SER:HG  | 16       | 3.29          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 12       | 3.29          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 12       | 3.29          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB2 | 13       | 3.29          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB3 | 13       | 3.29          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 1        | 3.29          |
| (1,1507) | 1:A:6:GLN:H    | 1:A:11:TRP:HD1 | 9        | 3.29          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 1        | 3.29          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 10       | 3.29          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 10       | 3.29          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 1        | 3.28          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD21 | 9        | 3.28          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD21 | 9        | 3.28          |
| (1,538)  | 1:A:1:SER:HB2  | 1:A:4:ASN:HD22 | 9        | 3.28          |
| (1,538)  | 1:A:1:SER:HB3  | 1:A:4:ASN:HD22 | 9        | 3.28          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 1        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 3        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 3        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 3        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 3        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 3        | 3.28          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 3        | 3.28          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 1        | 3.28          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 1        | 3.28          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 9        | 3.28          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 9        | 3.28          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 12       | 3.28          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 14       | 3.28          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 2        | 3.28          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 2        | 3.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 13       | 3.28          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 13       | 3.28          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 13       | 3.28          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 1        | 3.28          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 7        | 3.28          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 11       | 3.28          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 7        | 3.28          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 11       | 3.28          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 13       | 3.28          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 13       | 3.28          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 13       | 3.28          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 13       | 3.28          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 18       | 3.28          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 18       | 3.28          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 16       | 3.28          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 5        | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 16       | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 16       | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 18       | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 18       | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 19       | 3.28          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 19       | 3.28          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 7        | 3.28          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 4        | 3.28          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 15       | 3.28          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 1        | 3.28          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 15       | 3.28          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 3        | 3.28          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 3        | 3.28          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 6        | 3.28          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 6        | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 1        | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 1        | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 1        | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 17       | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 17       | 3.28          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 17       | 3.28          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 6        | 3.28          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 6        | 3.28          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 2        | 3.28          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 12       | 3.28          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 12       | 3.28          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 12       | 3.28          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 6        | 3.28          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 12       | 3.28          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 12       | 3.28          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 7        | 3.28          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H   | 19       | 3.28          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 3        | 3.28          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 2        | 3.28          |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 12       | 3.28          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 12       | 3.28          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 12       | 3.28          |
| (1,2292) | 1:A:9:PRO:HG2   | 1:A:11:TRP:H   | 17       | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 4        | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 9        | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 10       | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 14       | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 19       | 3.28          |
| (1,2026) | 1:A:8:GLY:H     | 1:A:11:TRP:HE1 | 20       | 3.28          |
| (1,1552) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE3 | 11       | 3.28          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 2        | 3.28          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 2        | 3.28          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 19       | 3.28          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 19       | 3.28          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 16       | 3.27          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 14       | 3.27          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 14       | 3.27          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 14       | 3.27          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 14       | 3.27          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 10       | 3.27          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 8        | 3.27          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 8        | 3.27          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE2 | 5        | 3.27          |
| (1,4841) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HE3 | 5        | 3.27          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 2        | 3.27          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 16       | 3.27          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 1        | 3.27          |
| (1,4762) | 1:A:29:GLY:H    | 1:A:31:LYS:HB2 | 15       | 3.27          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 9        | 3.27          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 3        | 3.27          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 6        | 3.27          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 1        | 3.27          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 11       | 3.27          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA   | 13       | 3.27          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA   | 17       | 3.27          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2  | 11       | 3.27          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2  | 11       | 3.27          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3  | 11       | 3.27          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3  | 11       | 3.27          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 5        | 3.27          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3  | 11       | 3.27          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1  | 20       | 3.27          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2  | 20       | 3.27          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE21 | 16       | 3.27          |
| (1,4069) | 1:A:21:SER:HG   | 1:A:22:GLN:HE22 | 16       | 3.27          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG   | 6        | 3.27          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG   | 17       | 3.27          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H    | 5        | 3.27          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H    | 10       | 3.27          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H    | 13       | 3.27          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H    | 15       | 3.27          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1  | 11       | 3.27          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2  | 11       | 3.27          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3  | 11       | 3.27          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE1  | 17       | 3.27          |
| (1,3882) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HE2  | 17       | 3.27          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H    | 12       | 3.27          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H    | 14       | 3.27          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA   | 11       | 3.27          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H    | 3        | 3.27          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H    | 11       | 3.27          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H    | 13       | 3.27          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H    | 18       | 3.27          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H    | 8        | 3.27          |
| (1,3591) | 1:A:17:GLY:HA2  | 1:A:19:CYS:H    | 17       | 3.27          |
| (1,3550) | 1:A:17:GLY:H    | 1:A:19:CYS:H    | 16       | 3.27          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H    | 3        | 3.27          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H    | 4        | 3.27          |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H    | 18       | 3.27          |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H    | 19       | 3.27          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2  | 8        | 3.27          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3  | 8        | 3.27          |
| (1,2292) | 1:A:9:PRO:HG2   | 1:A:11:TRP:H    | 2        | 3.27          |
| (1,2292) | 1:A:9:PRO:HG2   | 1:A:11:TRP:H    | 3        | 3.27          |
| (1,2292) | 1:A:9:PRO:HG2   | 1:A:11:TRP:H    | 4        | 3.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 5        | 3.27          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 6        | 3.27          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 10       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 1        | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 7        | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 8        | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 9        | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 11       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 12       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 13       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 14       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 15       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 16       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 17       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 18       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 19       | 3.27          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 20       | 3.27          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 9        | 3.27          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 7        | 3.27          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 8        | 3.27          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 12       | 3.27          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 16       | 3.27          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 18       | 3.27          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB2 | 12       | 3.27          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB3 | 12       | 3.27          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 3        | 3.27          |
| (1,1552) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE3 | 17       | 3.27          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 16       | 3.27          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 16       | 3.27          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 6        | 3.26          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 6        | 3.26          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 12       | 3.26          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 2        | 3.26          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 3        | 3.26          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 2        | 3.26          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD1 | 10       | 3.26          |
| (1,575)  | 1:A:1:SER:HB2  | 1:A:25:TYR:HD2 | 10       | 3.26          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD1 | 10       | 3.26          |
| (1,575)  | 1:A:1:SER:HB3  | 1:A:25:TYR:HD2 | 10       | 3.26          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 18       | 3.26          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 18       | 3.26          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 5        | 3.26          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 2        | 3.26          |
| (1,4862) | 1:A:31:LYS:HB2  | 1:A:34:ALA:HA  | 4        | 3.26          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 7        | 3.26          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 7        | 3.26          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 7        | 3.26          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 10       | 3.26          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 10       | 3.26          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 5        | 3.26          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 17       | 3.26          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 2        | 3.26          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 18       | 3.26          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 18       | 3.26          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 19       | 3.26          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 19       | 3.26          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 4        | 3.26          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 18       | 3.26          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 18       | 3.26          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 5        | 3.26          |
| (1,3981) | 1:A:20:CYS:HB2  | 1:A:35:HIS:HE1 | 1        | 3.26          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 2        | 3.26          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 7        | 3.26          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 9        | 3.26          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 16       | 3.26          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 4        | 3.26          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 4        | 3.26          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H   | 4        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 3        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 3        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 3        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 9        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 9        | 3.26          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 9        | 3.26          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 10       | 3.26          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 10       | 3.26          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 4        | 3.26          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 7        | 3.26          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 19       | 3.26          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H   | 9        | 3.26          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 6        | 3.26          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 14       | 3.26          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2 | 10       | 3.26          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3 | 10       | 3.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 1        | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 7        | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 8        | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 9        | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 11       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 12       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 13       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 14       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 15       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 16       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 18       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 19       | 3.26          |
| (1,2292) | 1:A:9:PRO:HG2  | 1:A:11:TRP:H   | 20       | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 2        | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 3        | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 4        | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 5        | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 6        | 3.26          |
| (1,2200) | 1:A:9:PRO:HB2  | 1:A:12:GLY:H   | 10       | 3.26          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 14       | 3.26          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 20       | 3.26          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 11       | 3.26          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 8        | 3.26          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 8        | 3.26          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 5        | 3.26          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 14       | 3.26          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 5        | 3.26          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 5        | 3.26          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 10       | 3.25          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 10       | 3.25          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 7        | 3.25          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 16       | 3.25          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 16       | 3.25          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 12       | 3.25          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 3        | 3.25          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 12       | 3.25          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 10       | 3.25          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 2        | 3.25          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 2        | 3.25          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 7        | 3.25          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA2 | 20       | 3.25          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA3 | 20       | 3.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 2        | 3.25          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 10       | 3.25          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 11       | 3.25          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 12       | 3.25          |
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 3        | 3.25          |
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 5        | 3.25          |
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 11       | 3.25          |
| (1,3983) | 1:A:20:CYS:HB3 | 1:A:21:SER:HG  | 13       | 3.25          |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 18       | 3.25          |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 19       | 3.25          |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 20       | 3.25          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H   | 17       | 3.25          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 4        | 3.25          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1 | 6        | 3.25          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2 | 6        | 3.25          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3 | 6        | 3.25          |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA  | 16       | 3.25          |
| (1,3706) | 1:A:18:LEU:HB3 | 1:A:21:SER:H   | 2        | 3.25          |
| (1,3706) | 1:A:18:LEU:HB3 | 1:A:21:SER:H   | 8        | 3.25          |
| (1,3706) | 1:A:18:LEU:HB3 | 1:A:21:SER:H   | 20       | 3.25          |
| (1,3689) | 1:A:18:LEU:HB2 | 1:A:26:CYS:H   | 12       | 3.25          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H   | 5        | 3.25          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H   | 1        | 3.25          |
| (1,3209) | 1:A:14:CYS:HB2 | 1:A:27:GLY:HA2 | 17       | 3.25          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H   | 16       | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 7        | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 8        | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 12       | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 16       | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 18       | 3.25          |
| (1,2141) | 1:A:9:PRO:HA   | 1:A:11:TRP:HE1 | 19       | 3.25          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 1        | 3.25          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 13       | 3.25          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 15       | 3.25          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 2        | 3.25          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 6        | 3.25          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 10       | 3.25          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 1        | 3.25          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 15       | 3.25          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 14       | 3.24          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 14       | 3.24          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 14       | 3.24          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3 | 14       | 3.24          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 3        | 3.24          |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 3        | 3.24          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 5        | 3.24          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 5        | 3.24          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 6        | 3.24          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 6        | 3.24          |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 4        | 3.24          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 5        | 3.24          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 1        | 3.24          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 1        | 3.24          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 1        | 3.24          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 13       | 3.24          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 1        | 3.24          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 4        | 3.24          |
| (1,3963) | 1:A:20:CYS:HB2  | 1:A:25:TYR:H   | 8        | 3.24          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 5        | 3.24          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 5        | 3.24          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 5        | 3.24          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 10       | 3.24          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 16       | 3.24          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 16       | 3.24          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 16       | 3.24          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 5        | 3.24          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 10       | 3.24          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 11       | 3.24          |
| (1,3394) | 1:A:15:ARG:HD2  | 1:A:18:LEU:H   | 12       | 3.24          |
| (1,3394) | 1:A:15:ARG:HD3  | 1:A:18:LEU:H   | 12       | 3.24          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 12       | 3.24          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 12       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 8        | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 9        | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 13       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 14       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 15       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 16       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 18       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 19       | 3.24          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 20       | 3.24          |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 15       | 3.24          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 3        | 3.24          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 7        | 3.24          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 16       | 3.24          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 18       | 3.24          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 19       | 3.24          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 20       | 3.24          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 14       | 3.24          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 8        | 3.23          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 20       | 3.23          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 8        | 3.23          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 8        | 3.23          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 12       | 3.23          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 12       | 3.23          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 16       | 3.23          |
| (1,4906) | 1:A:31:LYS:HE2 | 1:A:35:HIS:H   | 11       | 3.23          |
| (1,4906) | 1:A:31:LYS:HE3 | 1:A:35:HIS:H   | 11       | 3.23          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2 | 7        | 3.23          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 1        | 3.23          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 1        | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 3        | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 3        | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 9        | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 9        | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 16       | 3.23          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 17       | 3.23          |
| (1,4743) | 1:A:28:SER:HB2 | 1:A:32:TYR:H   | 2        | 3.23          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 5        | 3.23          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 13       | 3.23          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 15       | 3.23          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 12       | 3.23          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 11       | 3.23          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 11       | 3.23          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA  | 8        | 3.23          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA2 | 17       | 3.23          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA3 | 17       | 3.23          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 14       | 3.23          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 15       | 3.23          |
| (1,4016) | 1:A:21:SER:H   | 1:A:23:TYR:HA  | 16       | 3.23          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 10       | 3.23          |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 12       | 3.23          |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA2 | 5        | 3.23          |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA3 | 5        | 3.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 8        | 3.23          |
| (1,3692) | 1:A:18:LEU:HB2  | 1:A:28:SER:H   | 17       | 3.23          |
| (1,3394) | 1:A:15:ARG:HD2  | 1:A:18:LEU:H   | 20       | 3.23          |
| (1,3394) | 1:A:15:ARG:HD3  | 1:A:18:LEU:H   | 20       | 3.23          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB2 | 12       | 3.23          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB2 | 12       | 3.23          |
| (1,3376) | 1:A:15:ARG:HG2  | 1:A:26:CYS:HB3 | 12       | 3.23          |
| (1,3376) | 1:A:15:ARG:HG3  | 1:A:26:CYS:HB3 | 12       | 3.23          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 12       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 18       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 18       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 19       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 19       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 20       | 3.23          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 20       | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 1        | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 3        | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 4        | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 7        | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 11       | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 12       | 3.23          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 17       | 3.23          |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 1        | 3.23          |
| (1,2141) | 1:A:9:PRO:HA    | 1:A:11:TRP:HE1 | 11       | 3.23          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,2015) | 1:A:7:CYS:HB2   | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD1 | 17       | 3.23          |
| (1,2015) | 1:A:7:CYS:HB3   | 1:A:32:TYR:HD2 | 17       | 3.23          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 4        | 3.23          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 4        | 3.23          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 3        | 3.23          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 4        | 3.23          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 6        | 3.23          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 3        | 3.23          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 8        | 3.23          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 11       | 3.23          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 12       | 3.23          |
| (1,1059) | 1:A:4:ASN:H     | 1:A:11:TRP:HB2 | 4        | 3.23          |
| (1,1059) | 1:A:4:ASN:H     | 1:A:11:TRP:HB3 | 4        | 3.23          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 18       | 3.22          |
| (1,717)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HE1 | 19       | 3.22          |
| (1,716)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HD1 | 15       | 3.22          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 16       | 3.22          |
| (1,4887) | 1:A:31:LYS:HG3  | 1:A:34:ALA:H   | 20       | 3.22          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 11       | 3.22          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 11       | 3.22          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 11       | 3.22          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H   | 7        | 3.22          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 1        | 3.22          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 1        | 3.22          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 11       | 3.22          |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 11       | 3.22          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 7        | 3.22          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 7        | 3.22          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 7        | 3.22          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 7        | 3.22          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 16       | 3.22          |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 16       | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 4        | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 8        | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 12       | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 13       | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 14       | 3.22          |
| (1,4743) | 1:A:28:SER:HB2  | 1:A:32:TYR:H   | 15       | 3.22          |
| (1,4714) | 1:A:27:GLY:HA3  | 1:A:33:CYS:H   | 16       | 3.22          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 7        | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 16       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 16       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 18       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 18       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 19       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 19       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB2 | 20       | 3.22          |
| (1,4353) | 1:A:23:TYR:H    | 1:A:32:TYR:HB3 | 20       | 3.22          |
| (1,4304) | 1:A:22:GLN:HE22 | 1:A:24:GLY:H   | 19       | 3.22          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 19       | 3.22          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 7        | 3.22          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 7        | 3.22          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE1 | 10       | 3.22          |
| (1,4150) | 1:A:22:GLN:HA   | 1:A:32:TYR:HE2 | 10       | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 7        | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 8        | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 9        | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 18       | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 19       | 3.22          |
| (1,4016) | 1:A:21:SER:H    | 1:A:23:TYR:HA  | 20       | 3.22          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 10       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 18       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 18       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 18       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 19       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 19       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 19       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 20       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 20       | 3.22          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 20       | 3.22          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 8        | 3.22          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 8        | 3.22          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 8        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 2        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 2        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 2        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 2        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 2        | 3.22          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 2        | 3.22          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 18       | 3.22          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 9        | 3.22          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 1        | 3.22          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H   | 17       | 3.22          |
| (1,3494) | 1:A:16:GLY:HA2  | 1:A:19:CYS:H   | 17       | 3.22          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 1        | 3.22          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 7        | 3.22          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 7        | 3.22          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 9        | 3.22          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 9        | 3.22          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 9        | 3.22          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 9        | 3.22          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 2        | 3.22          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 5        | 3.22          |
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 6        | 3.22          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2252) | 1:A:9:PRO:HB3   | 1:A:12:GLY:H   | 10       | 3.22          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 9        | 3.22          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 9        | 3.22          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 19       | 3.22          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 19       | 3.22          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 4        | 3.22          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 11       | 3.22          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 15       | 3.22          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 1        | 3.22          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 1        | 3.22          |
| (1,1436) | 1:A:5:GLY:H     | 1:A:25:TYR:HA  | 17       | 3.22          |
| (1,1246) | 1:A:4:ASN:HD21  | 1:A:5:GLY:HA2  | 3        | 3.22          |
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 14       | 3.22          |
| (1,1059) | 1:A:4:ASN:H     | 1:A:11:TRP:HB2 | 3        | 3.22          |
| (1,1059) | 1:A:4:ASN:H     | 1:A:11:TRP:HB3 | 3        | 3.22          |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 5        | 3.21          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 5        | 3.21          |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 13       | 3.21          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 13       | 3.21          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 12       | 3.21          |
| (1,544)  | 1:A:1:SER:HB2   | 1:A:11:TRP:H   | 1        | 3.21          |
| (1,544)  | 1:A:1:SER:HB3   | 1:A:11:TRP:H   | 1        | 3.21          |
| (1,544)  | 1:A:1:SER:HB2   | 1:A:11:TRP:H   | 6        | 3.21          |
| (1,544)  | 1:A:1:SER:HB3   | 1:A:11:TRP:H   | 6        | 3.21          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2  | 16       | 3.21          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 16       | 3.21          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 16       | 3.21          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 16       | 3.21          |
| (1,4940) | 1:A:34:ALA:HA   | 1:A:35:HIS:HD2 | 3        | 3.21          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 1        | 3.21          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 1        | 3.21          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 1        | 3.21          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 9        | 3.21          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 10       | 3.21          |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 10       | 3.21          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 8        | 3.21          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 8        | 3.21          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 8        | 3.21          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 8        | 3.21          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 15       | 3.21          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 15       | 3.21          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 15       | 3.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 6        | 3.21          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 18       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 12       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 12       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 13       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 13       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 14       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 14       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 19       | 3.21          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 19       | 3.21          |
| (1,4130) | 1:A:22:GLN:H    | 1:A:35:HIS:H   | 16       | 3.21          |
| (1,3983) | 1:A:20:CYS:HB3  | 1:A:21:SER:HG  | 2        | 3.21          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 18       | 3.21          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 19       | 3.21          |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 20       | 3.21          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 19       | 3.21          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 6        | 3.21          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 6        | 3.21          |
| (1,3650) | 1:A:18:LEU:H    | 1:A:26:CYS:HB2 | 14       | 3.21          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 13       | 3.21          |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 13       | 3.21          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 16       | 3.21          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 16       | 3.21          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB2 | 17       | 3.21          |
| (1,3098) | 1:A:13:GLY:H    | 1:A:20:CYS:HB3 | 17       | 3.21          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 15       | 3.21          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 15       | 3.21          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 20       | 3.21          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 20       | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 7        | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 7        | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 17       | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 17       | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 18       | 3.21          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 18       | 3.21          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 2        | 3.21          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 2        | 3.21          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 10       | 3.21          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 10       | 3.21          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 5        | 3.21          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 10       | 3.21          |
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 1        | 3.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1553) | 1:A:6:GLN:HA    | 1:A:11:TRP:HE1 | 9        | 3.21          |
| (1,1507) | 1:A:6:GLN:H     | 1:A:11:TRP:HD1 | 13       | 3.21          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 9        | 3.21          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 9        | 3.21          |
| (1,716)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HD1 | 6        | 3.2           |
| (1,716)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HD1 | 10       | 3.2           |
| (1,609)  | 1:A:2:GLY:H     | 1:A:11:TRP:HE1 | 2        | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 7        | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 7        | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 11       | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 11       | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 19       | 3.2           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 19       | 3.2           |
| (1,4909) | 1:A:31:LYS:HZ1  | 1:A:33:CYS:H   | 4        | 3.2           |
| (1,4909) | 1:A:31:LYS:HZ2  | 1:A:33:CYS:H   | 4        | 3.2           |
| (1,4909) | 1:A:31:LYS:HZ3  | 1:A:33:CYS:H   | 4        | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 2        | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 2        | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 4        | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 4        | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD1 | 14       | 3.2           |
| (1,4801) | 1:A:30:PRO:HB2  | 1:A:32:TYR:HD2 | 14       | 3.2           |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 13       | 3.2           |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 13       | 3.2           |
| (1,4793) | 1:A:30:PRO:HA   | 1:A:31:LYS:HG3 | 13       | 3.2           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 18       | 3.2           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 18       | 3.2           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE1 | 19       | 3.2           |
| (1,4755) | 1:A:28:SER:HB3  | 1:A:32:TYR:HE2 | 19       | 3.2           |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD1 | 3        | 3.2           |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD2 | 3        | 3.2           |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 4        | 3.2           |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 12       | 3.2           |
| (1,4676) | 1:A:27:GLY:H    | 1:A:29:GLY:H   | 20       | 3.2           |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2 | 7        | 3.2           |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2 | 7        | 3.2           |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3 | 7        | 3.2           |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3 | 7        | 3.2           |
| (1,4321) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB2 | 15       | 3.2           |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 9        | 3.2           |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 8        | 3.2           |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 8        | 3.2           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 9        | 3.2           |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 9        | 3.2           |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 18       | 3.2           |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 18       | 3.2           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 6        | 3.2           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 6        | 3.2           |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 3        | 3.2           |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 2        | 3.2           |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 2        | 3.2           |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 10       | 3.2           |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 10       | 3.2           |
| (1,3843) | 1:A:19:CYS:H    | 1:A:32:TYR:H   | 16       | 3.2           |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 20       | 3.2           |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 20       | 3.2           |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 20       | 3.2           |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 6        | 3.2           |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 15       | 3.2           |
| (1,3452) | 1:A:16:GLY:H    | 1:A:18:LEU:HB3 | 11       | 3.2           |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 3        | 3.2           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 8        | 3.2           |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 16       | 3.2           |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 16       | 3.2           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 15       | 3.2           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 15       | 3.2           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 16       | 3.2           |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 16       | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 3        | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 3        | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 5        | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 5        | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 6        | 3.2           |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 6        | 3.2           |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 2        | 3.2           |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 14       | 3.2           |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 7        | 3.2           |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 12       | 3.2           |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 19       | 3.2           |
| (1,902)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HH2 | 17       | 3.19          |
| (1,902)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HH2 | 17       | 3.19          |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 17       | 3.19          |
| (1,611)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ2 | 8        | 3.19          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB2 | 4        | 3.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 4        | 3.19          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 4        | 3.19          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 4        | 3.19          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 8        | 3.19          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 8        | 3.19          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 18       | 3.19          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 18       | 3.19          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 16       | 3.19          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 3        | 3.19          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 2        | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 8        | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 8        | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 12       | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 12       | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 13       | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 13       | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD1 | 15       | 3.19          |
| (1,4801) | 1:A:30:PRO:HB2 | 1:A:32:TYR:HD2 | 15       | 3.19          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 16       | 3.19          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 16       | 3.19          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE1 | 20       | 3.19          |
| (1,4755) | 1:A:28:SER:HB3 | 1:A:32:TYR:HE2 | 20       | 3.19          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 2        | 3.19          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 8        | 3.19          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 16       | 3.19          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 18       | 3.19          |
| (1,4676) | 1:A:27:GLY:H   | 1:A:29:GLY:H   | 19       | 3.19          |
| (1,4643) | 1:A:26:CYS:HA  | 1:A:32:TYR:HA  | 4        | 3.19          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1 | 14       | 3.19          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2 | 14       | 3.19          |
| (1,4059) | 1:A:21:SER:HB3 | 1:A:26:CYS:HB2 | 5        | 3.19          |
| (1,3963) | 1:A:20:CYS:HB2 | 1:A:25:TYR:H   | 14       | 3.19          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1 | 20       | 3.19          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2 | 20       | 3.19          |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA  | 7        | 3.19          |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA  | 20       | 3.19          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 6        | 3.19          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 6        | 3.19          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 8        | 3.19          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 8        | 3.19          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 13       | 3.19          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 13       | 3.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 13       | 3.19          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 13       | 3.19          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 9        | 3.19          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 9        | 3.19          |
| (1,3226) | 1:A:14:CYS:HB3 | 1:A:15:ARG:HE  | 6        | 3.19          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 13       | 3.19          |
| (1,2026) | 1:A:8:GLY:H    | 1:A:11:TRP:HE1 | 17       | 3.19          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 1        | 3.19          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 1        | 3.19          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 18       | 3.19          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 18       | 3.19          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H   | 19       | 3.19          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H   | 19       | 3.19          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 9        | 3.19          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 4        | 3.19          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 4        | 3.19          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 14       | 3.19          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 11       | 3.19          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 18       | 3.19          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 4        | 3.19          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 4        | 3.19          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 2        | 3.19          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 2        | 3.19          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 6        | 3.19          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 6        | 3.19          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 14       | 3.18          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 14       | 3.18          |
| (1,717)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HE1 | 9        | 3.18          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 5        | 3.18          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 4        | 3.18          |
| (1,4922) | 1:A:32:TYR:HA  | 1:A:35:HIS:HE1 | 20       | 3.18          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 12       | 3.18          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA  | 14       | 3.18          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 17       | 3.18          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 17       | 3.18          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 17       | 3.18          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 6        | 3.18          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 6        | 3.18          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 18       | 3.18          |
| (1,4687) | 1:A:27:GLY:H   | 1:A:33:CYS:H   | 14       | 3.18          |
| (1,4643) | 1:A:26:CYS:HA  | 1:A:32:TYR:HA  | 2        | 3.18          |
| (1,4409) | 1:A:23:TYR:HD1 | 1:A:32:TYR:HA  | 3        | 3.18          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 3        | 3.18          |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 1        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 2        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 2        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 4        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 4        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 5        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 5        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 7        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 7        | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA2 | 11       | 3.18          |
| (1,4221) | 1:A:22:GLN:HB3  | 1:A:24:GLY:HA3 | 11       | 3.18          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 5        | 3.18          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 5        | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 2        | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 8        | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 9        | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 10       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 11       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 13       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 15       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 16       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 17       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 18       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 19       | 3.18          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 20       | 3.18          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 6        | 3.18          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 1        | 3.18          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 1        | 3.18          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 11       | 3.18          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 11       | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 5        | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 5        | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 18       | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 18       | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 19       | 3.18          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 19       | 3.18          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 19       | 3.18          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 19       | 3.18          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 19       | 3.18          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 5        | 3.18          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 10       | 3.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 10       | 3.18          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 5        | 3.18          |
| (1,3494) | 1:A:16:GLY:HA2 | 1:A:19:CYS:H   | 5        | 3.18          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 16       | 3.18          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB2 | 8        | 3.18          |
| (1,3086) | 1:A:13:GLY:H   | 1:A:15:ARG:HB3 | 8        | 3.18          |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 17       | 3.18          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 17       | 3.18          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 17       | 3.18          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB2 | 8        | 3.18          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB3 | 8        | 3.18          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 19       | 3.18          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 11       | 3.18          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 15       | 3.18          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 8        | 3.18          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 16       | 3.18          |
| (1,1510) | 1:A:6:GLN:H    | 1:A:11:TRP:HZ3 | 20       | 3.18          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 8        | 3.18          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 8        | 3.18          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 14       | 3.18          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 3        | 3.18          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 5        | 3.18          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 5        | 3.18          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 1        | 3.17          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 1        | 3.17          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 11       | 3.17          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 10       | 3.17          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 10       | 3.17          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 10       | 3.17          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 10       | 3.17          |
| (1,4911) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:H   | 16       | 3.17          |
| (1,4911) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:H   | 16       | 3.17          |
| (1,4911) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:H   | 16       | 3.17          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 20       | 3.17          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 12       | 3.17          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 12       | 3.17          |
| (1,4764) | 1:A:29:GLY:H   | 1:A:31:LYS:HB3 | 19       | 3.17          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 19       | 3.17          |
| (1,4714) | 1:A:27:GLY:HA3 | 1:A:33:CYS:H   | 20       | 3.17          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 7        | 3.17          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 16       | 3.17          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 18       | 3.17          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 19       | 3.17          |
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 20       | 3.17          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 1        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 1        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 3        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 4        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 6        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 7        | 3.17          |
| (1,4059) | 1:A:21:SER:HB3  | 1:A:26:CYS:HB2 | 14       | 3.17          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 13       | 3.17          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 13       | 3.17          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 16       | 3.17          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 16       | 3.17          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 18       | 3.17          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 18       | 3.17          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 18       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 13       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 13       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 13       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 13       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 13       | 3.17          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 13       | 3.17          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 9        | 3.17          |
| (1,3742) | 1:A:18:LEU:HG   | 1:A:26:CYS:HA  | 15       | 3.17          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 3        | 3.17          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 3        | 3.17          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 5        | 3.17          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 5        | 3.17          |
| (1,3424) | 1:A:15:ARG:HE   | 1:A:18:LEU:HG  | 13       | 3.17          |
| (1,3423) | 1:A:15:ARG:HE   | 1:A:18:LEU:HB2 | 16       | 3.17          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 9        | 3.17          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 7        | 3.17          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 7        | 3.17          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 11       | 3.17          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 11       | 3.17          |
| (1,1994) | 1:A:7:CYS:HB2   | 1:A:19:CYS:H   | 13       | 3.17          |
| (1,1994) | 1:A:7:CYS:HB3   | 1:A:19:CYS:H   | 13       | 3.17          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 20       | 3.17          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 20       | 3.17          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 14       | 3.17          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 18       | 3.17          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 13       | 3.17          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 10       | 3.17          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 10       | 3.17          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 13       | 3.16          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 14       | 3.16          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 20       | 3.16          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 1        | 3.16          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 9        | 3.16          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 9        | 3.16          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 9        | 3.16          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 9        | 3.16          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 14       | 3.16          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 14       | 3.16          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 4        | 3.16          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 4        | 3.16          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 14       | 3.16          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 14       | 3.16          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 10       | 3.16          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 10       | 3.16          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 9        | 3.16          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 9        | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 3        | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 3        | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3 | 3        | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 17       | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 17       | 3.16          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3 | 17       | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 5        | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 5        | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 5        | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 14       | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 14       | 3.16          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 14       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 16       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB3 | 16       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 18       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB3 | 18       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB2 | 19       | 3.16          |
| (1,4521) | 1:A:25:TYR:H   | 1:A:32:TYR:HB3 | 19       | 3.16          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2 | 11       | 3.16          |
| (1,4443) | 1:A:24:GLY:H   | 1:A:26:CYS:HA  | 4        | 3.16          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 8        | 3.16          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 9        | 3.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2 | 19       | 3.16          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2 | 19       | 3.16          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3 | 19       | 3.16          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3 | 19       | 3.16          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB2 | 19       | 3.16          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB3 | 19       | 3.16          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA2 | 6        | 3.16          |
| (1,4221) | 1:A:22:GLN:HB3 | 1:A:24:GLY:HA3 | 6        | 3.16          |
| (1,4158) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HB3 | 4        | 3.16          |
| (1,4059) | 1:A:21:SER:HB3 | 1:A:26:CYS:HB2 | 12       | 3.16          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 17       | 3.16          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1 | 1        | 3.16          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2 | 1        | 3.16          |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA  | 17       | 3.16          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 5        | 3.16          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 6        | 3.16          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA2 | 17       | 3.16          |
| (1,2865) | 1:A:11:TRP:HE1 | 1:A:24:GLY:HA3 | 17       | 3.16          |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 13       | 3.16          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB2 | 1        | 3.16          |
| (1,1769) | 1:A:6:GLN:HG3  | 1:A:26:CYS:HB3 | 1        | 3.16          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 20       | 3.16          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 14       | 3.16          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 14       | 3.16          |
| (1,1561) | 1:A:6:GLN:HA   | 1:A:21:SER:H   | 12       | 3.16          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 9        | 3.16          |
| (1,1246) | 1:A:4:ASN:HD21 | 1:A:5:GLY:HA2  | 20       | 3.16          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 7        | 3.15          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 16       | 3.15          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 10       | 3.15          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 7        | 3.15          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 20       | 3.15          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 15       | 3.15          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 15       | 3.15          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 15       | 3.15          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 15       | 3.15          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 9        | 3.15          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 9        | 3.15          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 1        | 3.15          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 1        | 3.15          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 10       | 3.15          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 10       | 3.15          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4885) | 1:A:31:LYS:HG3  | 1:A:33:CYS:H   | 4        | 3.15          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD2 | 11       | 3.15          |
| (1,4795) | 1:A:30:PRO:HA   | 1:A:31:LYS:HD3 | 11       | 3.15          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB2 | 20       | 3.15          |
| (1,4521) | 1:A:25:TYR:H    | 1:A:32:TYR:HB3 | 20       | 3.15          |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 15       | 3.15          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 3        | 3.15          |
| (1,4443) | 1:A:24:GLY:H    | 1:A:26:CYS:HA  | 6        | 3.15          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 14       | 3.15          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 14       | 3.15          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 14       | 3.15          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 7        | 3.15          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 7        | 3.15          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 13       | 3.15          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE2 | 18       | 3.15          |
| (1,4090) | 1:A:21:SER:HG   | 1:A:31:LYS:HE3 | 18       | 3.15          |
| (1,4074) | 1:A:21:SER:HG   | 1:A:26:CYS:HB2 | 14       | 3.15          |
| (1,4054) | 1:A:21:SER:HB3  | 1:A:22:GLN:HG3 | 14       | 3.15          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 20       | 3.15          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 20       | 3.15          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 12       | 3.15          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 12       | 3.15          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 1        | 3.15          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 1        | 3.15          |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 8        | 3.15          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 18       | 3.15          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 18       | 3.15          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 19       | 3.15          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 19       | 3.15          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 2        | 3.15          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 5        | 3.15          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 6        | 3.15          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 10       | 3.15          |
| (1,2001) | 1:A:7:CYS:HB2   | 1:A:23:TYR:H   | 17       | 3.15          |
| (1,2001) | 1:A:7:CYS:HB3   | 1:A:23:TYR:H   | 17       | 3.15          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 9        | 3.15          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 9        | 3.15          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 7        | 3.15          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 1        | 3.15          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 12       | 3.15          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 1        | 3.15          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 15       | 3.15          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2  | 15       | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 4        | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 4        | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 4        | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 4        | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 4        | 3.15          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 4        | 3.15          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2   | 14       | 3.15          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3   | 14       | 3.15          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 14       | 3.15          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 14       | 3.15          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 4        | 3.14          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 4        | 3.14          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1  | 18       | 3.14          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1  | 19       | 3.14          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22  | 9        | 3.14          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2  | 19       | 3.14          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 4        | 3.14          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 4        | 3.14          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 4        | 3.14          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 4        | 3.14          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2   | 5        | 3.14          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2   | 5        | 3.14          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3   | 5        | 3.14          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3   | 5        | 3.14          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21  | 13       | 3.14          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22  | 13       | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 1        | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 1        | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3  | 1        | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 6        | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 6        | 3.14          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3  | 6        | 3.14          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 5        | 3.14          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 5        | 3.14          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 1        | 3.14          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 8        | 3.14          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 12       | 3.14          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 13       | 3.14          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 2        | 3.14          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 10       | 3.14          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 13       | 3.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 14       | 3.14          |
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 15       | 3.14          |
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 17       | 3.14          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA  | 19       | 3.14          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 15       | 3.14          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 15       | 3.14          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 16       | 3.14          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 16       | 3.14          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 11       | 3.14          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 11       | 3.14          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 7        | 3.14          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 7        | 3.14          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 7        | 3.14          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 4        | 3.14          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 4        | 3.14          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 20       | 3.14          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 20       | 3.14          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 3        | 3.14          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 4        | 3.14          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB2 | 11       | 3.14          |
| (1,1769) | 1:A:6:GLN:HG3   | 1:A:26:CYS:HB3 | 11       | 3.14          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 8        | 3.14          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 15       | 3.14          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 16       | 3.14          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 17       | 3.14          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 17       | 3.14          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 12       | 3.14          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 8        | 3.14          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 9        | 3.14          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 11       | 3.14          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 15       | 3.14          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 3        | 3.14          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 3        | 3.14          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 13       | 3.14          |
| (1,716)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HD1 | 12       | 3.13          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB2 | 3        | 3.13          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB2 | 3        | 3.13          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB3 | 3        | 3.13          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3 | 3        | 3.13          |
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 18       | 3.13          |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 18       | 3.13          |
| (1,544)  | 1:A:1:SER:HB2   | 1:A:11:TRP:H   | 20       | 3.13          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 20       | 3.13          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2   | 18       | 3.13          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2   | 18       | 3.13          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3   | 18       | 3.13          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3   | 18       | 3.13          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2   | 19       | 3.13          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2   | 19       | 3.13          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3   | 19       | 3.13          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3   | 19       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 15       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 15       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 15       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 15       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 15       | 3.13          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 15       | 3.13          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 14       | 3.13          |
| (1,4862) | 1:A:31:LYS:HB2 | 1:A:34:ALA:HA   | 8        | 3.13          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2  | 11       | 3.13          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3  | 11       | 3.13          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1  | 11       | 3.13          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2  | 11       | 3.13          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3  | 11       | 3.13          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 9        | 3.13          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 16       | 3.13          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 18       | 3.13          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 19       | 3.13          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 20       | 3.13          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 1        | 3.13          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 5        | 3.13          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H    | 11       | 3.13          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE21 | 16       | 3.13          |
| (1,4055) | 1:A:21:SER:HB3 | 1:A:22:GLN:HE22 | 16       | 3.13          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H    | 7        | 3.13          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H    | 9        | 3.13          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H    | 16       | 3.13          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H    | 3        | 3.13          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H    | 4        | 3.13          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H    | 5        | 3.13          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H    | 6        | 3.13          |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA2  | 7        | 3.13          |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA3  | 7        | 3.13          |
| (1,3922) | 1:A:20:CYS:H   | 1:A:24:GLY:HA2  | 9        | 3.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 9        | 3.13          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2 | 14       | 3.13          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3 | 14       | 3.13          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 17       | 3.13          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 17       | 3.13          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 1        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 1        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 1        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 2        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 2        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 2        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 9        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 9        | 3.13          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 9        | 3.13          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 2        | 3.13          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 3        | 3.13          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 4        | 3.13          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 10       | 3.13          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 2        | 3.13          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 10       | 3.13          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 15       | 3.13          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3 | 16       | 3.13          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 7        | 3.13          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 8        | 3.13          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 20       | 3.13          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 19       | 3.13          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 4        | 3.13          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 14       | 3.13          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 18       | 3.13          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 20       | 3.13          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1 | 7        | 3.13          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2 | 7        | 3.13          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 1        | 3.13          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 1        | 3.13          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2  | 4        | 3.13          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB3  | 4        | 3.13          |
| (1,1246) | 1:A:4:ASN:HD21  | 1:A:5:GLY:HA2  | 1        | 3.13          |
| (1,1246) | 1:A:4:ASN:HD21  | 1:A:5:GLY:HA2  | 15       | 3.13          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 19       | 3.12          |
| (1,609)  | 1:A:2:GLY:H     | 1:A:11:TRP:HE1 | 11       | 3.12          |
| (1,603)  | 1:A:2:GLY:H     | 1:A:8:GLY:H    | 4        | 3.12          |
| (1,603)  | 1:A:2:GLY:H     | 1:A:8:GLY:H    | 19       | 3.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,546)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HD1 | 7        | 3.12          |
| (1,546)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HD1 | 7        | 3.12          |
| (1,4874) | 1:A:31:LYS:HG2  | 1:A:35:HIS:HA  | 16       | 3.12          |
| (1,4870) | 1:A:31:LYS:HG2  | 1:A:33:CYS:H   | 4        | 3.12          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H   | 16       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 5        | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 5        | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 5        | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 18       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 18       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 18       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 19       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 19       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 19       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB1 | 20       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB2 | 20       | 3.12          |
| (1,4789) | 1:A:29:GLY:HA3  | 1:A:34:ALA:HB3 | 20       | 3.12          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 1        | 3.12          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 1        | 3.12          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD1 | 17       | 3.12          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD2 | 17       | 3.12          |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 7        | 3.12          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 11       | 3.12          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 11       | 3.12          |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 11       | 3.12          |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 11       | 3.12          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA  | 10       | 3.12          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 1        | 3.12          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA2 | 12       | 3.12          |
| (1,4248) | 1:A:22:GLN:HG3  | 1:A:24:GLY:HA3 | 12       | 3.12          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 16       | 3.12          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE1 | 9        | 3.12          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE2 | 9        | 3.12          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE1 | 18       | 3.12          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE2 | 18       | 3.12          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB2 | 19       | 3.12          |
| (1,4045) | 1:A:21:SER:H    | 1:A:35:HIS:HB3 | 19       | 3.12          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 18       | 3.12          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 19       | 3.12          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 20       | 3.12          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 10       | 3.12          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 11       | 3.12          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H    | 16       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2  | 8        | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3  | 8        | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2  | 18       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3  | 18       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2  | 19       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3  | 19       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA2  | 20       | 3.12          |
| (1,3922) | 1:A:20:CYS:H    | 1:A:24:GLY:HA3  | 20       | 3.12          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3  | 13       | 3.12          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3  | 13       | 3.12          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3  | 13       | 3.12          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2  | 15       | 3.12          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3  | 15       | 3.12          |
| (1,3396) | 1:A:15:ARG:HD2  | 1:A:19:CYS:H    | 1        | 3.12          |
| (1,3396) | 1:A:15:ARG:HD3  | 1:A:19:CYS:H    | 1        | 3.12          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA   | 20       | 3.12          |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H    | 7        | 3.12          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD2  | 16       | 3.12          |
| (1,3169) | 1:A:14:CYS:H    | 1:A:15:ARG:HD3  | 16       | 3.12          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG2  | 9        | 3.12          |
| (1,3050) | 1:A:12:GLY:HA3  | 1:A:15:ARG:HG3  | 9        | 3.12          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1  | 9        | 3.12          |
| (1,1744) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HE3  | 12       | 3.12          |
| (1,1661) | 1:A:6:GLN:HB3   | 1:A:26:CYS:H    | 3        | 3.12          |
| (1,1661) | 1:A:6:GLN:HB3   | 1:A:26:CYS:H    | 4        | 3.12          |
| (1,1661) | 1:A:6:GLN:HB3   | 1:A:26:CYS:H    | 6        | 3.12          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H    | 18       | 3.12          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG   | 3        | 3.12          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG   | 6        | 3.12          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG   | 8        | 3.12          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG   | 9        | 3.12          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H    | 16       | 3.12          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H    | 19       | 3.12          |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3  | 12       | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD11 | 3        | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD12 | 3        | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD13 | 3        | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD21 | 3        | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD22 | 3        | 3.12          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD23 | 3        | 3.12          |
| (1,1317) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HB2   | 20       | 3.12          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 20       | 3.12          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 14       | 3.12          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 2        | 3.11          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 6        | 3.11          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 10       | 3.11          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 8        | 3.11          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 9        | 3.11          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 20       | 3.11          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 15       | 3.11          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 7        | 3.11          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 7        | 3.11          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 7        | 3.11          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 7        | 3.11          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 12       | 3.11          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 12       | 3.11          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 12       | 3.11          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 12       | 3.11          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 15       | 3.11          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 15       | 3.11          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB1 | 9        | 3.11          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB2 | 9        | 3.11          |
| (1,4789) | 1:A:29:GLY:HA3 | 1:A:34:ALA:HB3 | 9        | 3.11          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ1 | 6        | 3.11          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ2 | 6        | 3.11          |
| (1,4711) | 1:A:27:GLY:HA3 | 1:A:31:LYS:HZ3 | 6        | 3.11          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG2 | 19       | 3.11          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG2 | 19       | 3.11          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG3 | 19       | 3.11          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG3 | 19       | 3.11          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB2 | 1        | 3.11          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB3 | 1        | 3.11          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 14       | 3.11          |
| (1,4246) | 1:A:22:GLN:HG3 | 1:A:23:TYR:HB3 | 2        | 3.11          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA  | 12       | 3.11          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 3        | 3.11          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 12       | 3.11          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 12       | 3.11          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 1        | 3.11          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 1        | 3.11          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3 | 10       | 3.11          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H   | 8        | 3.11          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H   | 1        | 3.11          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 2        | 3.11          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 7        | 3.11          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 13       | 3.11          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 15       | 3.11          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 5        | 3.11          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 3        | 3.11          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 3        | 3.11          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 3        | 3.11          |
| (1,3788) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HB3 | 14       | 3.11          |
| (1,3788) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HB3 | 14       | 3.11          |
| (1,3788) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HB3 | 14       | 3.11          |
| (1,3706) | 1:A:18:LEU:HB3  | 1:A:21:SER:H   | 17       | 3.11          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 2        | 3.11          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 2        | 3.11          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 13       | 3.11          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 13       | 3.11          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 6        | 3.11          |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 20       | 3.11          |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 18       | 3.11          |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 19       | 3.11          |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 20       | 3.11          |
| (1,1661) | 1:A:6:GLN:HB3   | 1:A:26:CYS:H   | 14       | 3.11          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 18       | 3.11          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 19       | 3.11          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 1        | 3.11          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 1        | 3.11          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 7        | 3.11          |
| (1,1562) | 1:A:6:GLN:HA    | 1:A:21:SER:HG  | 20       | 3.11          |
| (1,1561) | 1:A:6:GLN:HA    | 1:A:21:SER:H   | 7        | 3.11          |
| (1,1510) | 1:A:6:GLN:H     | 1:A:11:TRP:HZ3 | 9        | 3.11          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 9        | 3.11          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 5        | 3.1           |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 8        | 3.1           |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 17       | 3.1           |
| (1,713)  | 1:A:2:GLY:HA3   | 1:A:7:CYS:H    | 3        | 3.1           |
| (1,603)  | 1:A:2:GLY:H     | 1:A:8:GLY:H    | 7        | 3.1           |
| (1,603)  | 1:A:2:GLY:H     | 1:A:8:GLY:H    | 13       | 3.1           |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD1 | 9        | 3.1           |
| (1,575)  | 1:A:1:SER:HB2   | 1:A:25:TYR:HD2 | 9        | 3.1           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD1 | 9        | 3.1           |
| (1,575)  | 1:A:1:SER:HB3   | 1:A:25:TYR:HD2 | 9        | 3.1           |
| (1,544)  | 1:A:1:SER:HB2   | 1:A:11:TRP:H   | 11       | 3.1           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,544)  | 1:A:1:SER:HB3   | 1:A:11:TRP:H   | 11       | 3.1           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE21 | 20       | 3.1           |
| (1,509)  | 1:A:1:SER:HA    | 1:A:6:GLN:HE22 | 20       | 3.1           |
| (1,4934) | 1:A:32:TYR:HE1  | 1:A:35:HIS:HB3 | 19       | 3.1           |
| (1,4934) | 1:A:32:TYR:HE2  | 1:A:35:HIS:HB3 | 19       | 3.1           |
| (1,4888) | 1:A:31:LYS:HG3  | 1:A:34:ALA:HA  | 2        | 3.1           |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 10       | 3.1           |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 10       | 3.1           |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 10       | 3.1           |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD1 | 7        | 3.1           |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD2 | 7        | 3.1           |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 16       | 3.1           |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG2 | 9        | 3.1           |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG2 | 9        | 3.1           |
| (1,4429) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HG3 | 9        | 3.1           |
| (1,4429) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HG3 | 9        | 3.1           |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 1        | 3.1           |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 4        | 3.1           |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 15       | 3.1           |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 3        | 3.1           |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 9        | 3.1           |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 18       | 3.1           |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 19       | 3.1           |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 20       | 3.1           |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 11       | 3.1           |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 10       | 3.1           |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 10       | 3.1           |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 10       | 3.1           |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 11       | 3.1           |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 11       | 3.1           |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H   | 4        | 3.1           |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 4        | 3.1           |
| (1,3394) | 1:A:15:ARG:HD2  | 1:A:18:LEU:H   | 18       | 3.1           |
| (1,3394) | 1:A:15:ARG:HD3  | 1:A:18:LEU:H   | 18       | 3.1           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 18       | 3.1           |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 19       | 3.1           |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 8        | 3.1           |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 19       | 3.1           |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 20       | 3.1           |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2 | 7        | 3.1           |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3 | 7        | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3   | 1:A:11:TRP:HD1 | 7        | 3.1           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 8        | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 12       | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 14       | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 15       | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 16       | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 18       | 3.1           |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 19       | 3.1           |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 2        | 3.1           |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 4        | 3.1           |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 5        | 3.1           |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 6        | 3.1           |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 10       | 3.1           |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 2        | 3.1           |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 4        | 3.1           |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 10       | 3.1           |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 7        | 3.1           |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 8        | 3.1           |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 16       | 3.1           |
| (1,1790) | 1:A:6:GLN:HE21 | 1:A:7:CYS:H    | 17       | 3.1           |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 2        | 3.1           |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 10       | 3.1           |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 11       | 3.1           |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 11       | 3.1           |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 15       | 3.1           |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 15       | 3.1           |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 8        | 3.1           |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 20       | 3.1           |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 18       | 3.1           |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 19       | 3.1           |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 16       | 3.09          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 18       | 3.09          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 15       | 3.09          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 15       | 3.09          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 2        | 3.09          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB2 | 17       | 3.09          |
| (1,648)  | 1:A:2:GLY:H    | 1:A:26:CYS:HB3 | 17       | 3.09          |
| (1,611)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ2 | 18       | 3.09          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 4        | 3.09          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 17       | 3.09          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 13       | 3.09          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 13       | 3.09          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 1        | 3.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 1        | 3.09          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 1        | 3.09          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 1        | 3.09          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2  | 20       | 3.09          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 20       | 3.09          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 20       | 3.09          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 20       | 3.09          |
| (1,512)  | 1:A:1:SER:HA    | 1:A:11:TRP:HZ3 | 17       | 3.09          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 14       | 3.09          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H   | 14       | 3.09          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H   | 14       | 3.09          |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA  | 3        | 3.09          |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA  | 17       | 3.09          |
| (1,4764) | 1:A:29:GLY:H    | 1:A:31:LYS:HB3 | 20       | 3.09          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 18       | 3.09          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 19       | 3.09          |
| (1,4687) | 1:A:27:GLY:H    | 1:A:33:CYS:H   | 20       | 3.09          |
| (1,4442) | 1:A:24:GLY:H    | 1:A:26:CYS:H   | 12       | 3.09          |
| (1,4409) | 1:A:23:TYR:HD1  | 1:A:32:TYR:HA  | 2        | 3.09          |
| (1,4409) | 1:A:23:TYR:HD2  | 1:A:32:TYR:HA  | 2        | 3.09          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 11       | 3.09          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 11       | 3.09          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE1 | 6        | 3.09          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE2 | 6        | 3.09          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 14       | 3.09          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 4        | 3.09          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 12       | 3.09          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 14       | 3.09          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 8        | 3.09          |
| (1,3961) | 1:A:20:CYS:HB2  | 1:A:24:GLY:H   | 14       | 3.09          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB2 | 10       | 3.09          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB3 | 10       | 3.09          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 1        | 3.09          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 1        | 3.09          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 12       | 3.09          |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 18       | 3.09          |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 17       | 3.09          |
| (1,2248) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HD1 | 3        | 3.09          |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 3        | 3.09          |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 5        | 3.09          |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 6        | 3.09          |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 14       | 3.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 9        | 3.09          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 12       | 3.09          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 13       | 3.09          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 17       | 3.09          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 17       | 3.09          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 5        | 3.09          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 13       | 3.09          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 13       | 3.09          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 16       | 3.09          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 5        | 3.09          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 13       | 3.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 9        | 3.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 9        | 3.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB2  | 15       | 3.09          |
| (1,1317) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HB3  | 15       | 3.09          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 3        | 3.09          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 12       | 3.08          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 3        | 3.08          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 3        | 3.08          |
| (1,716)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HD1 | 9        | 3.08          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 6        | 3.08          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 18       | 3.08          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 6        | 3.08          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 6        | 3.08          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 6        | 3.08          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 6        | 3.08          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 13       | 3.08          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 13       | 3.08          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 13       | 3.08          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 13       | 3.08          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2 | 2        | 3.08          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 7        | 3.08          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 7        | 3.08          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 11       | 3.08          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 11       | 3.08          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 2        | 3.08          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 2        | 3.08          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 5        | 3.08          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 5        | 3.08          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 15       | 3.08          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 20       | 3.08          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 15       | 3.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 15       | 3.08          |
| (1,4014) | 1:A:21:SER:H   | 1:A:22:GLN:HG3 | 17       | 3.08          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 6        | 3.08          |
| (1,3961) | 1:A:20:CYS:HB2 | 1:A:24:GLY:H   | 12       | 3.08          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 7        | 3.08          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 20       | 3.08          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 2        | 3.08          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 4        | 3.08          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 10       | 3.08          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 8        | 3.08          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 9        | 3.08          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 20       | 3.08          |
| (1,3221) | 1:A:14:CYS:HB2 | 1:A:33:CYS:HA  | 7        | 3.08          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 9        | 3.08          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 12       | 3.08          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 14       | 3.08          |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 1        | 3.08          |
| (1,2363) | 1:A:9:PRO:HG3  | 1:A:11:TRP:HD1 | 11       | 3.08          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 9        | 3.08          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 15       | 3.08          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 20       | 3.08          |
| (1,2043) | 1:A:8:GLY:H    | 1:A:20:CYS:HB3 | 17       | 3.08          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 4        | 3.08          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 12       | 3.08          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 12       | 3.08          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 12       | 3.08          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 1        | 3.08          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 2        | 3.08          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 7        | 3.08          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 10       | 3.08          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 16       | 3.08          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 1        | 3.08          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 15       | 3.08          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 13       | 3.08          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 13       | 3.08          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 7        | 3.07          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 13       | 3.07          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 3        | 3.07          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 20       | 3.07          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 8        | 3.07          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 16       | 3.07          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2 | 12       | 3.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 12       | 3.07          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 12       | 3.07          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 12       | 3.07          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 12       | 3.07          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 12       | 3.07          |
| (1,4895) | 1:A:31:LYS:HD2  | 1:A:33:CYS:H   | 16       | 3.07          |
| (1,4895) | 1:A:31:LYS:HD3  | 1:A:33:CYS:H   | 16       | 3.07          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 12       | 3.07          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 12       | 3.07          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD1 | 1        | 3.07          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD2 | 1        | 3.07          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 5        | 3.07          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 5        | 3.07          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB2 | 9        | 3.07          |
| (1,4303) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HB3 | 9        | 3.07          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 16       | 3.07          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 17       | 3.07          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE2 | 19       | 3.07          |
| (1,4123) | 1:A:22:GLN:H    | 1:A:31:LYS:HE3 | 19       | 3.07          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 7        | 3.07          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 7        | 3.07          |
| (1,4074) | 1:A:21:SER:HG   | 1:A:26:CYS:HB2 | 12       | 3.07          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2 | 16       | 3.07          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 2        | 3.07          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB1 | 7        | 3.07          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB2 | 7        | 3.07          |
| (1,3883) | 1:A:19:CYS:HB2  | 1:A:34:ALA:HB3 | 7        | 3.07          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 18       | 3.07          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 19       | 3.07          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 4        | 3.07          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 4        | 3.07          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 4        | 3.07          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 4        | 3.07          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 4        | 3.07          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 15       | 3.07          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 15       | 3.07          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 15       | 3.07          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 17       | 3.07          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 17       | 3.07          |
| (1,3591) | 1:A:17:GLY:HA2  | 1:A:19:CYS:H   | 3        | 3.07          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 13       | 3.07          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 18       | 3.07          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 19       | 3.07          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 3        | 3.07          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 19       | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 7        | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 8        | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 12       | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 14       | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 16       | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 18       | 3.07          |
| (1,2248) | 1:A:9:PRO:HB3  | 1:A:11:TRP:HD1 | 19       | 3.07          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 12       | 3.07          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 9        | 3.07          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD2  | 8        | 3.07          |
| (1,1621) | 1:A:6:GLN:HB3  | 1:A:9:PRO:HD3  | 8        | 3.07          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 11       | 3.07          |
| (1,1562) | 1:A:6:GLN:HA   | 1:A:21:SER:HG  | 15       | 3.07          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 9        | 3.07          |
| (1,1248) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HA   | 4        | 3.07          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 11       | 3.07          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 11       | 3.07          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 11       | 3.06          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 5        | 3.06          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 13       | 3.06          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 11       | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 1        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 1        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 3        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 3        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 4        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 4        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 5        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 5        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 6        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 6        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 7        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 7        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 8        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 8        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 9        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 9        | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2  | 10       | 3.06          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3  | 10       | 3.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 11       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 11       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 12       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 12       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 13       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 13       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 14       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 14       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 15       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 15       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 16       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 16       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 18       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 18       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 19       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 19       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 20       | 3.06          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 20       | 3.06          |
| (1,4926) | 1:A:32:TYR:HB3  | 1:A:35:HIS:H   | 17       | 3.06          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 18       | 3.06          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 18       | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 3        | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 3        | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 10       | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 10       | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 17       | 3.06          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 17       | 3.06          |
| (1,4211) | 1:A:22:GLN:HB2  | 1:A:35:HIS:H   | 7        | 3.06          |
| (1,4074) | 1:A:21:SER:HG   | 1:A:26:CYS:HB2 | 8        | 3.06          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H   | 16       | 3.06          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 7        | 3.06          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 16       | 3.06          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 12       | 3.06          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 12       | 3.06          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 13       | 3.06          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 13       | 3.06          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 11       | 3.06          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 11       | 3.06          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 11       | 3.06          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1 | 4        | 3.06          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2 | 4        | 3.06          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1 | 4        | 3.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2 | 4        | 3.06          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1 | 4        | 3.06          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2 | 4        | 3.06          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 16       | 3.06          |
| (1,3621) | 1:A:17:GLY:HA3  | 1:A:19:CYS:H   | 20       | 3.06          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H   | 2        | 3.06          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H   | 12       | 3.06          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 3        | 3.06          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA2 | 15       | 3.06          |
| (1,3422) | 1:A:15:ARG:HE   | 1:A:17:GLY:HA3 | 15       | 3.06          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 7        | 3.06          |
| (1,3230) | 1:A:14:CYS:HB3  | 1:A:21:SER:H   | 11       | 3.06          |
| (1,3221) | 1:A:14:CYS:HB2  | 1:A:33:CYS:HA  | 16       | 3.06          |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 2        | 3.06          |
| (1,3196) | 1:A:14:CYS:HB2  | 1:A:17:GLY:H   | 10       | 3.06          |
| (1,2248) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HD1 | 1        | 3.06          |
| (1,2248) | 1:A:9:PRO:HB3   | 1:A:11:TRP:HD1 | 11       | 3.06          |
| (1,1946) | 1:A:7:CYS:H     | 1:A:21:SER:HG  | 8        | 3.06          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 13       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 7        | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 7        | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 9        | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 9        | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 16       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 16       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 18       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 18       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 19       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 19       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD2  | 20       | 3.06          |
| (1,1621) | 1:A:6:GLN:HB3   | 1:A:9:PRO:HD3  | 20       | 3.06          |
| (1,1315) | 1:A:4:ASN:HD22  | 1:A:6:GLN:H    | 14       | 3.06          |
| (1,1248) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HA   | 20       | 3.06          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 17       | 3.06          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 11       | 3.05          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 11       | 3.05          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 11       | 3.05          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 11       | 3.05          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 8        | 3.05          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 8        | 3.05          |
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB2  | 2        | 3.05          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB2  | 2        | 3.05          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 2        | 3.05          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 2        | 3.05          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 3        | 3.05          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 3        | 3.05          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 3        | 3.05          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 3        | 3.05          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 9        | 3.05          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 16       | 3.05          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 16       | 3.05          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA  | 4        | 3.05          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 12       | 3.05          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 17       | 3.05          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 17       | 3.05          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 2        | 3.05          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 3        | 3.05          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 3        | 3.05          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 9        | 3.05          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 9        | 3.05          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 4        | 3.05          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 4        | 3.05          |
| (1,4762) | 1:A:29:GLY:H   | 1:A:31:LYS:HB2 | 10       | 3.05          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 9        | 3.05          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 9        | 3.05          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 4        | 3.05          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 4        | 3.05          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 6        | 3.05          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 6        | 3.05          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 3        | 3.05          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 4        | 3.05          |
| (1,4442) | 1:A:24:GLY:H   | 1:A:26:CYS:H   | 6        | 3.05          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 13       | 3.05          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 13       | 3.05          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 9        | 3.05          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 11       | 3.05          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 13       | 3.05          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 15       | 3.05          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 5        | 3.05          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1 | 16       | 3.05          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2 | 16       | 3.05          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3 | 16       | 3.05          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 9        | 3.05          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1 | 15       | 3.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2  | 15       | 3.05          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 1        | 3.05          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H    | 7        | 3.05          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H    | 8        | 3.05          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H    | 9        | 3.05          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H    | 18       | 3.05          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H    | 19       | 3.05          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 14       | 3.05          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 14       | 3.05          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 18       | 3.05          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 18       | 3.05          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 18       | 3.05          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 18       | 3.05          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H    | 4        | 3.05          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 1        | 3.05          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 5        | 3.05          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H    | 17       | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 7        | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 9        | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 13       | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 15       | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 18       | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 19       | 3.05          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG   | 20       | 3.05          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1  | 11       | 3.05          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 9        | 3.05          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H    | 14       | 3.05          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H    | 1        | 3.05          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 9        | 3.05          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 9        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 6        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 6        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 6        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 6        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 6        | 3.05          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 6        | 3.05          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H     | 6        | 3.04          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H     | 10       | 3.04          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H     | 14       | 3.04          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1  | 15       | 3.04          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB2   | 2        | 3.04          |
| (1,595)  | 1:A:2:GLY:H    | 1:A:3:PRO:HB3   | 2        | 3.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 6        | 3.04          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 6        | 3.04          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 6        | 3.04          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 6        | 3.04          |
| (1,4903) | 1:A:31:LYS:HD2 | 1:A:35:HIS:HE1 | 7        | 3.04          |
| (1,4903) | 1:A:31:LYS:HD3 | 1:A:35:HIS:HE1 | 7        | 3.04          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 7        | 3.04          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 13       | 3.04          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 13       | 3.04          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2 | 1        | 3.04          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3 | 1        | 3.04          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 5        | 3.04          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 5        | 3.04          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 3        | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 2        | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 4        | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 8        | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 12       | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 13       | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 14       | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 15       | 3.04          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 17       | 3.04          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 1        | 3.04          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 1        | 3.04          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 1        | 3.04          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 1        | 3.04          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 1        | 3.04          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE2 | 18       | 3.04          |
| (1,4352) | 1:A:23:TYR:H   | 1:A:31:LYS:HE3 | 18       | 3.04          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H   | 6        | 3.04          |
| (1,4158) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HB3 | 12       | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 1        | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 7        | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 16       | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 18       | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 19       | 3.04          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2 | 20       | 3.04          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H   | 15       | 3.04          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 17       | 3.04          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1 | 2        | 3.04          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2 | 2        | 3.04          |
| (1,3621) | 1:A:17:GLY:HA3 | 1:A:19:CYS:H   | 12       | 3.04          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 14       | 3.04          |
| (1,3230) | 1:A:14:CYS:HB3 | 1:A:21:SER:H   | 16       | 3.04          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H   | 6        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 1        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 2        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 3        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 4        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 5        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 6        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 7        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 8        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 9        | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 10       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 11       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 12       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 13       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 14       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 15       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 16       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 18       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 19       | 3.04          |
| (1,2360) | 1:A:9:PRO:HG3  | 1:A:11:TRP:H   | 20       | 3.04          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 16       | 3.04          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 1        | 3.04          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 14       | 3.04          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 1        | 3.04          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 2        | 3.04          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 3        | 3.04          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 10       | 3.04          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 5        | 3.04          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 6        | 3.04          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 17       | 3.04          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 1        | 3.04          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 1        | 3.04          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 20       | 3.04          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 20       | 3.04          |
| (1,713)  | 1:A:2:GLY:HA3  | 1:A:7:CYS:H    | 5        | 3.03          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 4        | 3.03          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 13       | 3.03          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 10       | 3.03          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 11       | 3.03          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 19       | 3.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4885) | 1:A:31:LYS:HG3  | 1:A:33:CYS:H   | 19       | 3.03          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2 | 3        | 3.03          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3 | 3        | 3.03          |
| (1,4712) | 1:A:27:GLY:HA3  | 1:A:32:TYR:H   | 6        | 3.03          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 7        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 1        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 3        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 5        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 6        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 7        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 9        | 3.03          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H   | 11       | 3.03          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 11       | 3.03          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 11       | 3.03          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 11       | 3.03          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 11       | 3.03          |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H   | 11       | 3.03          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 6        | 3.03          |
| (1,4300) | 1:A:22:GLN:HE21 | 1:A:35:HIS:H   | 1        | 3.03          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 17       | 3.03          |
| (1,4132) | 1:A:22:GLN:H    | 1:A:35:HIS:HE1 | 19       | 3.03          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 3        | 3.03          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 14       | 3.03          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 5        | 3.03          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 11       | 3.03          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 13       | 3.03          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 7        | 3.03          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 7        | 3.03          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE1 | 14       | 3.03          |
| (1,3845) | 1:A:19:CYS:H    | 1:A:32:TYR:HE2 | 14       | 3.03          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 14       | 3.03          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 14       | 3.03          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 14       | 3.03          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3 | 7        | 3.03          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3 | 7        | 3.03          |
| (1,3394) | 1:A:15:ARG:HD2  | 1:A:18:LEU:H   | 16       | 3.03          |
| (1,3394) | 1:A:15:ARG:HD3  | 1:A:18:LEU:H   | 16       | 3.03          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H   | 7        | 3.03          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H   | 7        | 3.03          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 12       | 3.03          |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 12       | 3.03          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 12       | 3.03          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 12       | 3.03          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 1        | 3.03          |
| (1,1946) | 1:A:7:CYS:H    | 1:A:21:SER:HG  | 11       | 3.03          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3 | 15       | 3.03          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 5        | 3.03          |
| (1,1628) | 1:A:6:GLN:HB3  | 1:A:12:GLY:H   | 6        | 3.03          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 10       | 3.03          |
| (1,1553) | 1:A:6:GLN:HA   | 1:A:11:TRP:HE1 | 13       | 3.03          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 17       | 3.03          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 17       | 3.03          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 2        | 3.02          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 2        | 3.02          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 1        | 3.02          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22 | 15       | 3.02          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 1        | 3.02          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 6        | 3.02          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 3        | 3.02          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 12       | 3.02          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 2        | 3.02          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 2        | 3.02          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 18       | 3.02          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 18       | 3.02          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 11       | 3.02          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 11       | 3.02          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 11       | 3.02          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 11       | 3.02          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2  | 11       | 3.02          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2  | 11       | 3.02          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3  | 11       | 3.02          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3  | 11       | 3.02          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 10       | 3.02          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 10       | 3.02          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 19       | 3.02          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 1        | 3.02          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 11       | 3.02          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 13       | 3.02          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 15       | 3.02          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 11       | 3.02          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 11       | 3.02          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 3        | 3.02          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 9        | 3.02          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE2 | 2        | 3.02          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE3  | 2        | 3.02          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2  | 3        | 3.02          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2  | 4        | 3.02          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2  | 6        | 3.02          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H    | 1        | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 3        | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 3        | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 4        | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 4        | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 14       | 3.02          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 14       | 3.02          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA   | 10       | 3.02          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H    | 7        | 3.02          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1  | 9        | 3.02          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2  | 9        | 3.02          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H    | 3        | 3.02          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 19       | 3.02          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 19       | 3.02          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 19       | 3.02          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 19       | 3.02          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 10       | 3.02          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 11       | 3.02          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 13       | 3.02          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1  | 15       | 3.02          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H    | 9        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 2        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 2        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 2        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 2        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 2        | 3.02          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 2        | 3.02          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3  | 1        | 3.02          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 19       | 3.02          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 19       | 3.02          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2  | 11       | 3.01          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2  | 11       | 3.01          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2   | 4        | 3.01          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2   | 4        | 3.01          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB3   | 4        | 3.01          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB3   | 4        | 3.01          |
| (1,534)  | 1:A:1:SER:HB2  | 1:A:3:PRO:HB2   | 14       | 3.01          |
| (1,534)  | 1:A:1:SER:HB3  | 1:A:3:PRO:HB2   | 14       | 3.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,534)  | 1:A:1:SER:HB2   | 1:A:3:PRO:HB3  | 14       | 3.01          |
| (1,534)  | 1:A:1:SER:HB3   | 1:A:3:PRO:HB3  | 14       | 3.01          |
| (1,4893) | 1:A:31:LYS:HG3  | 1:A:35:HIS:HE1 | 7        | 3.01          |
| (1,4885) | 1:A:31:LYS:HG3  | 1:A:33:CYS:H   | 13       | 3.01          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2 | 15       | 3.01          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3 | 15       | 3.01          |
| (1,4881) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HA  | 3        | 3.01          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 10       | 3.01          |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 10       | 3.01          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 4        | 3.01          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 8        | 3.01          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 9        | 3.01          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 12       | 3.01          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 14       | 3.01          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 1        | 3.01          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 1        | 3.01          |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H   | 4        | 3.01          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 10       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 3        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 4        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 6        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 7        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 8        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 9        | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 11       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 12       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 13       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 17       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 18       | 3.01          |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 19       | 3.01          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 17       | 3.01          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 17       | 3.01          |
| (1,4068) | 1:A:21:SER:HG   | 1:A:22:GLN:HG3 | 20       | 3.01          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 13       | 3.01          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H   | 7        | 3.01          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H   | 9        | 3.01          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H   | 16       | 3.01          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 2        | 3.01          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 6        | 3.01          |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 10       | 3.01          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB2 | 2        | 3.01          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB3 | 2        | 3.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 6        | 3.01          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 6        | 3.01          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 12       | 3.01          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 12       | 3.01          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE1  | 8        | 3.01          |
| (1,3845) | 1:A:19:CYS:H   | 1:A:32:TYR:HE2  | 8        | 3.01          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H    | 2        | 3.01          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE1  | 17       | 3.01          |
| (1,2005) | 1:A:7:CYS:HB2  | 1:A:25:TYR:HE2  | 17       | 3.01          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE1  | 17       | 3.01          |
| (1,2005) | 1:A:7:CYS:HB3  | 1:A:25:TYR:HE2  | 17       | 3.01          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1  | 6        | 3.01          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 12       | 3.01          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3  | 11       | 3.01          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H    | 11       | 3.01          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H    | 15       | 3.01          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 2        | 3.01          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3  | 16       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 14       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 14       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 14       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 14       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 14       | 3.01          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 14       | 3.01          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1  | 5        | 3.01          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2  | 5        | 3.01          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 18       | 3.01          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 18       | 3.01          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 6        | 3.0           |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 6        | 3.0           |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 11       | 3.0           |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1  | 3        | 3.0           |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1  | 17       | 3.0           |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1  | 17       | 3.0           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 3        | 3.0           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 3        | 3.0           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 3        | 3.0           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 3        | 3.0           |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1  | 4        | 3.0           |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1  | 4        | 3.0           |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H    | 16       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H    | 16       | 3.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 18       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 18       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 19       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 19       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 20       | 3.0           |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 20       | 3.0           |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2 | 2        | 3.0           |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3 | 2        | 3.0           |
| (1,4881) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HA  | 17       | 3.0           |
| (1,4846) | 1:A:30:PRO:HD3  | 1:A:34:ALA:H   | 16       | 3.0           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 13       | 3.0           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 13       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 18       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 18       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 19       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 19       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE1 | 20       | 3.0           |
| (1,4768) | 1:A:29:GLY:H    | 1:A:32:TYR:HE2 | 20       | 3.0           |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 2        | 3.0           |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 6        | 3.0           |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 17       | 3.0           |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 17       | 3.0           |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 17       | 3.0           |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 17       | 3.0           |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 17       | 3.0           |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 13       | 3.0           |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 13       | 3.0           |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H   | 6        | 3.0           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 2        | 3.0           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 3        | 3.0           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 4        | 3.0           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 6        | 3.0           |
| (1,4504) | 1:A:25:TYR:H    | 1:A:26:CYS:HB2 | 10       | 3.0           |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1 | 1        | 3.0           |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2 | 1        | 3.0           |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1 | 14       | 3.0           |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2 | 14       | 3.0           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 3        | 3.0           |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 3        | 3.0           |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 4        | 3.0           |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 1        | 3.0           |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 2        | 3.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 5        | 3.0           |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 10       | 3.0           |
| (1,4134) | 1:A:22:GLN:HA   | 1:A:23:TYR:HB3 | 16       | 3.0           |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 11       | 3.0           |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 11       | 3.0           |
| (1,4074) | 1:A:21:SER:HG   | 1:A:26:CYS:HB2 | 5        | 3.0           |
| (1,4074) | 1:A:21:SER:HG   | 1:A:26:CYS:HB2 | 17       | 3.0           |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 12       | 3.0           |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 3        | 3.0           |
| (1,3984) | 1:A:20:CYS:HB3  | 1:A:22:GLN:H   | 4        | 3.0           |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB2 | 5        | 3.0           |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB3 | 5        | 3.0           |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 15       | 3.0           |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 5        | 3.0           |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 5        | 3.0           |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 5        | 3.0           |
| (1,3591) | 1:A:17:GLY:HA2  | 1:A:19:CYS:H   | 11       | 3.0           |
| (1,3591) | 1:A:17:GLY:HA2  | 1:A:19:CYS:H   | 15       | 3.0           |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3 | 2        | 3.0           |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3 | 3        | 3.0           |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3 | 4        | 3.0           |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3 | 10       | 3.0           |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 15       | 3.0           |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 16       | 3.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 8        | 3.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 8        | 3.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 8        | 3.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3 | 8        | 3.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 20       | 3.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 20       | 3.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 20       | 3.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3 | 20       | 3.0           |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 3        | 3.0           |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 4        | 3.0           |
| (1,3194) | 1:A:14:CYS:HB2  | 1:A:16:GLY:H   | 15       | 3.0           |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 3        | 3.0           |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 4        | 3.0           |
| (1,1765) | 1:A:6:GLN:HG3   | 1:A:25:TYR:H   | 11       | 3.0           |
| (1,1475) | 1:A:5:GLY:HA3   | 1:A:14:CYS:HB3 | 8        | 3.0           |
| (1,609)  | 1:A:2:GLY:H     | 1:A:11:TRP:HE1 | 14       | 2.99          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB2  | 17       | 2.99          |
| (1,595)  | 1:A:2:GLY:H     | 1:A:3:PRO:HB3  | 17       | 2.99          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 6        | 2.99          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 6        | 2.99          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 6        | 2.99          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 6        | 2.99          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 19       | 2.99          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 19       | 2.99          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 7        | 2.99          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 7        | 2.99          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 5        | 2.99          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 5        | 2.99          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 5        | 2.99          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 5        | 2.99          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 1        | 2.99          |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 1        | 2.99          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 5        | 2.99          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 5        | 2.99          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 4        | 2.99          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 4        | 2.99          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 6        | 2.99          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 15       | 2.99          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 10       | 2.99          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 10       | 2.99          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 1        | 2.99          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 4        | 2.99          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 10       | 2.99          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE1 | 16       | 2.99          |
| (1,4768) | 1:A:29:GLY:H   | 1:A:32:TYR:HE2 | 16       | 2.99          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 12       | 2.99          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 12       | 2.99          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 14       | 2.99          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 14       | 2.99          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 10       | 2.99          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 10       | 2.99          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 5        | 2.99          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 3        | 2.99          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 5        | 2.99          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H   | 14       | 2.99          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 15       | 2.99          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 15       | 2.99          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 15       | 2.99          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 15       | 2.99          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 2        | 2.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H    | 17       | 2.99          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 5        | 2.99          |
| (1,4504) | 1:A:25:TYR:H   | 1:A:26:CYS:HB2  | 17       | 2.99          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB2  | 20       | 2.99          |
| (1,4358) | 1:A:23:TYR:H   | 1:A:35:HIS:HB3  | 20       | 2.99          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2  | 16       | 2.99          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3  | 16       | 2.99          |
| (1,4246) | 1:A:22:GLN:HG3 | 1:A:23:TYR:HB3  | 19       | 2.99          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 4        | 2.99          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 4        | 2.99          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 11       | 2.99          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 11       | 2.99          |
| (1,4134) | 1:A:22:GLN:HA  | 1:A:23:TYR:HB3  | 15       | 2.99          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1  | 9        | 2.99          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2  | 9        | 2.99          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2  | 2        | 2.99          |
| (1,4074) | 1:A:21:SER:HG  | 1:A:26:CYS:HB2  | 10       | 2.99          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H    | 18       | 2.99          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H    | 19       | 2.99          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 13       | 2.99          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 13       | 2.99          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA   | 9        | 2.99          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA   | 11       | 2.99          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 7        | 2.99          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 7        | 2.99          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 7        | 2.99          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 7        | 2.99          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 14       | 2.99          |
| (1,2636) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ2  | 1        | 2.99          |
| (1,2636) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ2  | 13       | 2.99          |
| (1,2636) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ2  | 15       | 2.99          |
| (1,2636) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ2  | 17       | 2.99          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1  | 5        | 2.99          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1  | 10       | 2.99          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 17       | 2.99          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 17       | 2.99          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3  | 7        | 2.99          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 10       | 2.99          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 10       | 2.99          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 10       | 2.99          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 10       | 2.99          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 10       | 2.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 10       | 2.99          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 7        | 2.99          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 7        | 2.99          |
| (1,678)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HD22  | 14       | 2.98          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 4        | 2.98          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 14       | 2.98          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 1        | 2.98          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 1        | 2.98          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 1        | 2.98          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 1        | 2.98          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 2        | 2.98          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 2        | 2.98          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 2        | 2.98          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 2        | 2.98          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 20       | 2.98          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H    | 6        | 2.98          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H    | 17       | 2.98          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H    | 17       | 2.98          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 11       | 2.98          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 14       | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 2        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 2        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 4        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 4        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 8        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 8        | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 13       | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 13       | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1  | 15       | 2.98          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2  | 15       | 2.98          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H    | 17       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2  | 7        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2  | 7        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3  | 7        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3  | 7        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2  | 9        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2  | 9        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3  | 9        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3  | 9        | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2  | 13       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2  | 13       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3  | 13       | 2.98          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 13       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 14       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 14       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 14       | 2.98          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 14       | 2.98          |
| (1,4270) | 1:A:22:GLN:HG3  | 1:A:35:HIS:H   | 17       | 2.98          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 8        | 2.98          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 8        | 2.98          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H   | 20       | 2.98          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 1        | 2.98          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 14       | 2.98          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2 | 13       | 2.98          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 6        | 2.98          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 6        | 2.98          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 6        | 2.98          |
| (1,3744) | 1:A:18:LEU:HG   | 1:A:28:SER:H   | 7        | 2.98          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H   | 19       | 2.98          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H   | 19       | 2.98          |
| (1,3227) | 1:A:14:CYS:HB3  | 1:A:17:GLY:H   | 11       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 2        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 3        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 4        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 5        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 6        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 7        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 8        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 9        | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 10       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 11       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 12       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 14       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 16       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 18       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 19       | 2.98          |
| (1,2636) | 1:A:11:TRP:HB2  | 1:A:11:TRP:HZ2 | 20       | 2.98          |
| (1,2006) | 1:A:7:CYS:HB2   | 1:A:27:GLY:H   | 14       | 2.98          |
| (1,2006) | 1:A:7:CYS:HB3   | 1:A:27:GLY:H   | 14       | 2.98          |
| (1,1925) | 1:A:7:CYS:H     | 1:A:11:TRP:HE1 | 2        | 2.98          |
| (1,1765) | 1:A:6:GLN:HG3   | 1:A:25:TYR:H   | 15       | 2.98          |
| (1,1479) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HB2 | 4        | 2.98          |
| (1,1479) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HB3 | 4        | 2.98          |
| (1,1437) | 1:A:5:GLY:H     | 1:A:25:TYR:HB2 | 11       | 2.98          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 11       | 2.98          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 12       | 2.98          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 12       | 2.98          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 8        | 2.98          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 8        | 2.98          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 11       | 2.97          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 3        | 2.97          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 14       | 2.97          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 2        | 2.97          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 2        | 2.97          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 2        | 2.97          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 2        | 2.97          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 12       | 2.97          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 12       | 2.97          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 12       | 2.97          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 12       | 2.97          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 15       | 2.97          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 15       | 2.97          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 6        | 2.97          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 6        | 2.97          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 10       | 2.97          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 8        | 2.97          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 20       | 2.97          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 1        | 2.97          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 6        | 2.97          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 15       | 2.97          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 16       | 2.97          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 16       | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 2        | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 4        | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 8        | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 13       | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 14       | 2.97          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 15       | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 3        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 3        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 3        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 3        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 4        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 4        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 4        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 4        | 2.97          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 5        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 5        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 5        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 5        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 6        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 6        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 6        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 6        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 8        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 8        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 8        | 2.97          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 8        | 2.97          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 15       | 2.97          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 15       | 2.97          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 5        | 2.97          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 2        | 2.97          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 2        | 2.97          |
| (1,4134) | 1:A:22:GLN:HA  | 1:A:23:TYR:HB3 | 1        | 2.97          |
| (1,4134) | 1:A:22:GLN:HA  | 1:A:23:TYR:HB3 | 14       | 2.97          |
| (1,4134) | 1:A:22:GLN:HA  | 1:A:23:TYR:HB3 | 20       | 2.97          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 14       | 2.97          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 14       | 2.97          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3 | 15       | 2.97          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 15       | 2.97          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 17       | 2.97          |
| (1,3984) | 1:A:20:CYS:HB3 | 1:A:22:GLN:H   | 17       | 2.97          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 8        | 2.97          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 8        | 2.97          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 15       | 2.97          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 15       | 2.97          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 12       | 2.97          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 1        | 2.97          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 16       | 2.97          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 1        | 2.97          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 13       | 2.97          |
| (1,1590) | 1:A:6:GLN:HB2  | 1:A:12:GLY:H   | 13       | 2.97          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 3        | 2.97          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 8        | 2.97          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 8        | 2.97          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 1        | 2.96          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 15       | 2.96          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 5        | 2.96          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 5        | 2.96          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H     | 2        | 2.96          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H     | 9        | 2.96          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 19       | 2.96          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 19       | 2.96          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 19       | 2.96          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 19       | 2.96          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 13       | 2.96          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 13       | 2.96          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 14       | 2.96          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 14       | 2.96          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H    | 19       | 2.96          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 16       | 2.96          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 16       | 2.96          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 16       | 2.96          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 1        | 2.96          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 7        | 2.96          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 9        | 2.96          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 11       | 2.96          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 12       | 2.96          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H    | 13       | 2.96          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H    | 5        | 2.96          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H    | 7        | 2.96          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H    | 12       | 2.96          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 14       | 2.96          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1  | 19       | 2.96          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2  | 19       | 2.96          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3  | 17       | 2.96          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 10       | 2.96          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA   | 16       | 2.96          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA   | 20       | 2.96          |
| (1,3742) | 1:A:18:LEU:HG  | 1:A:26:CYS:HA   | 14       | 2.96          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H    | 8        | 2.96          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H    | 13       | 2.96          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 7        | 2.96          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 7        | 2.96          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 7        | 2.96          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H    | 13       | 2.96          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H    | 16       | 2.96          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H    | 16       | 2.96          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 8        | 2.96          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 3        | 2.96          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 3        | 2.96          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 18       | 2.96          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 19       | 2.96          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 20       | 2.96          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 9        | 2.96          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 9        | 2.96          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 12       | 2.96          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 12       | 2.96          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 5        | 2.95          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 20       | 2.95          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 20       | 2.95          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 20       | 2.95          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 20       | 2.95          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 8        | 2.95          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 8        | 2.95          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 8        | 2.95          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 8        | 2.95          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 10       | 2.95          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 18       | 2.95          |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 6        | 2.95          |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 6        | 2.95          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA  | 13       | 2.95          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 3        | 2.95          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 17       | 2.95          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 18       | 2.95          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 19       | 2.95          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3 | 20       | 2.95          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA2 | 13       | 2.95          |
| (1,4248) | 1:A:22:GLN:HG3 | 1:A:24:GLY:HA3 | 13       | 2.95          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 18       | 2.95          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H   | 2        | 2.95          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H   | 11       | 2.95          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD1 | 16       | 2.95          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD2 | 16       | 2.95          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 10       | 2.95          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 13       | 2.95          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 13       | 2.95          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3 | 1        | 2.95          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 8        | 2.95          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 13       | 2.95          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 18       | 2.95          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 19       | 2.95          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 12       | 2.95          |
| (1,3706) | 1:A:18:LEU:HB3 | 1:A:21:SER:H    | 14       | 2.95          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2  | 12       | 2.95          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3  | 12       | 2.95          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2  | 20       | 2.95          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3  | 20       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 18       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 18       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 18       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 19       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 19       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 19       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 20       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 20       | 2.95          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 20       | 2.95          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 17       | 2.95          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 17       | 2.95          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 3        | 2.95          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 8        | 2.95          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H    | 2        | 2.95          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H    | 5        | 2.95          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H    | 6        | 2.95          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H    | 7        | 2.95          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H    | 7        | 2.95          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 20       | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 5        | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 5        | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 5        | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 5        | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 5        | 2.95          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 5        | 2.95          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 5        | 2.95          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 5        | 2.95          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3  | 15       | 2.95          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 15       | 2.95          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 15       | 2.95          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 16       | 2.95          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 16       | 2.95          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 13       | 2.94          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H     | 6        | 2.94          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 13       | 2.94          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 18       | 2.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2 | 18       | 2.94          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2 | 18       | 2.94          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3 | 18       | 2.94          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3 | 18       | 2.94          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3 | 18       | 2.94          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 7        | 2.94          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 7        | 2.94          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 7        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 2        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 2        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 2        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 2        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 2        | 2.94          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 2        | 2.94          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 17       | 2.94          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 18       | 2.94          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 19       | 2.94          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 20       | 2.94          |
| (1,4694) | 1:A:27:GLY:HA2 | 1:A:29:GLY:H   | 10       | 2.94          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 2        | 2.94          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 2        | 2.94          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 2        | 2.94          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 2        | 2.94          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2 | 12       | 2.94          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2 | 12       | 2.94          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3 | 12       | 2.94          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3 | 12       | 2.94          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 5        | 2.94          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 5        | 2.94          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 5        | 2.94          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 5        | 2.94          |
| (1,4243) | 1:A:22:GLN:HB3 | 1:A:35:HIS:H   | 16       | 2.94          |
| (1,4163) | 1:A:22:GLN:HB2 | 1:A:25:TYR:H   | 17       | 2.94          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 8        | 2.94          |
| (1,3941) | 1:A:20:CYS:H   | 1:A:32:TYR:HA  | 15       | 2.94          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 9        | 2.94          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 20       | 2.94          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 15       | 2.94          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 5        | 2.94          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 5        | 2.94          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 6        | 2.94          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 6        | 2.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG  | 11       | 2.94          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG  | 14       | 2.94          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 3        | 2.94          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 13       | 2.94          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 17       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 3        | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 4        | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 7        | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 8        | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 9        | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 10       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 12       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 14       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 16       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 19       | 2.94          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 20       | 2.94          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 18       | 2.94          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 18       | 2.94          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 19       | 2.94          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 19       | 2.94          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 6        | 2.94          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 6        | 2.94          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 10       | 2.94          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 10       | 2.94          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 15       | 2.94          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 1        | 2.94          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 1        | 2.94          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 19       | 2.94          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 1        | 2.93          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 1        | 2.93          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 10       | 2.93          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 10       | 2.93          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 16       | 2.93          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 12       | 2.93          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 12       | 2.93          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 12       | 2.93          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 12       | 2.93          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 14       | 2.93          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 14       | 2.93          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 14       | 2.93          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 14       | 2.93          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 11       | 2.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 11       | 2.93          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 11       | 2.93          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 14       | 2.93          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 14       | 2.93          |
| (1,4759) | 1:A:29:GLY:H    | 1:A:30:PRO:HB3 | 5        | 2.93          |
| (1,4759) | 1:A:29:GLY:H    | 1:A:30:PRO:HB3 | 16       | 2.93          |
| (1,4712) | 1:A:27:GLY:HA3  | 1:A:32:TYR:H   | 11       | 2.93          |
| (1,4709) | 1:A:27:GLY:HA3  | 1:A:29:GLY:HA3 | 16       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 16       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 16       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 16       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 16       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 18       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 18       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 18       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 18       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 19       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 19       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 19       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 19       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA2 | 20       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA2 | 20       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD1  | 1:A:27:GLY:HA3 | 20       | 2.93          |
| (1,4559) | 1:A:25:TYR:HD2  | 1:A:27:GLY:HA3 | 20       | 2.93          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 8        | 2.93          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 8        | 2.93          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2 | 9        | 2.93          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3 | 9        | 2.93          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H   | 9        | 2.93          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 1        | 2.93          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 8        | 2.93          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H   | 12       | 2.93          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB2 | 17       | 2.93          |
| (1,3944) | 1:A:20:CYS:H    | 1:A:33:CYS:HB3 | 17       | 2.93          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA  | 4        | 2.93          |
| (1,3798) | 1:A:18:LEU:HD21 | 1:A:19:CYS:HB3 | 17       | 2.93          |
| (1,3798) | 1:A:18:LEU:HD22 | 1:A:19:CYS:HB3 | 17       | 2.93          |
| (1,3798) | 1:A:18:LEU:HD23 | 1:A:19:CYS:HB3 | 17       | 2.93          |
| (1,3744) | 1:A:18:LEU:HG   | 1:A:28:SER:H   | 3        | 2.93          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 18       | 2.93          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA3 | 18       | 2.93          |
| (1,3652) | 1:A:18:LEU:H    | 1:A:27:GLY:HA2 | 19       | 2.93          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 19       | 2.93          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 1        | 2.93          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 17       | 2.93          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 10       | 2.93          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 10       | 2.93          |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3 | 11       | 2.93          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3 | 11       | 2.93          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 1        | 2.93          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 13       | 2.93          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 18       | 2.93          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 18       | 2.93          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 1        | 2.93          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 11       | 2.93          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 15       | 2.93          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H   | 18       | 2.93          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 9        | 2.93          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 20       | 2.93          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 9        | 2.93          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 20       | 2.93          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 15       | 2.92          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 8        | 2.92          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 19       | 2.92          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 19       | 2.92          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 19       | 2.92          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 19       | 2.92          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 7        | 2.92          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 7        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 1        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 1        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 1        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 1        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 1        | 2.92          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 1        | 2.92          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 10       | 2.92          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 6        | 2.92          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 1        | 2.92          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 8        | 2.92          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 12       | 2.92          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 8        | 2.92          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 12       | 2.92          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 13       | 2.92          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 14       | 2.92          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4708) | 1:A:27:GLY:HA3  | 1:A:29:GLY:H    | 15       | 2.92          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H    | 16       | 2.92          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H    | 18       | 2.92          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H    | 19       | 2.92          |
| (1,4694) | 1:A:27:GLY:HA2  | 1:A:29:GLY:H    | 20       | 2.92          |
| (1,4633) | 1:A:26:CYS:HA   | 1:A:28:SER:H    | 1        | 2.92          |
| (1,4633) | 1:A:26:CYS:HA   | 1:A:28:SER:H    | 3        | 2.92          |
| (1,4633) | 1:A:26:CYS:HA   | 1:A:28:SER:H    | 4        | 2.92          |
| (1,4633) | 1:A:26:CYS:HA   | 1:A:28:SER:H    | 6        | 2.92          |
| (1,4633) | 1:A:26:CYS:HA   | 1:A:28:SER:H    | 11       | 2.92          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2  | 7        | 2.92          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3  | 7        | 2.92          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA2  | 16       | 2.92          |
| (1,4506) | 1:A:25:TYR:H    | 1:A:27:GLY:HA3  | 16       | 2.92          |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H    | 10       | 2.92          |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H    | 15       | 2.92          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG2  | 14       | 2.92          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG2  | 14       | 2.92          |
| (1,4406) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HG3  | 14       | 2.92          |
| (1,4406) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HG3  | 14       | 2.92          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 9        | 2.92          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 9        | 2.92          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H    | 8        | 2.92          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H    | 13       | 2.92          |
| (1,4222) | 1:A:22:GLN:HB3  | 1:A:25:TYR:H    | 18       | 2.92          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H    | 1        | 2.92          |
| (1,4163) | 1:A:22:GLN:HB2  | 1:A:25:TYR:H    | 14       | 2.92          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1  | 18       | 2.92          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2  | 18       | 2.92          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1  | 20       | 2.92          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2  | 20       | 2.92          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3  | 3        | 2.92          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA   | 1        | 2.92          |
| (1,3941) | 1:A:20:CYS:H    | 1:A:32:TYR:HA   | 2        | 2.92          |
| (1,3847) | 1:A:19:CYS:H    | 1:A:33:CYS:HB2  | 5        | 2.92          |
| (1,3844) | 1:A:19:CYS:H    | 1:A:32:TYR:HA   | 3        | 2.92          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD11 | 16       | 2.92          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD12 | 16       | 2.92          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD13 | 16       | 2.92          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB2  | 2        | 2.92          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB3  | 2        | 2.92          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB2  | 4        | 2.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 4        | 2.92          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 16       | 2.92          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 16       | 2.92          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3  | 4        | 2.92          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 2        | 2.92          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 4        | 2.92          |
| (1,2832) | 1:A:11:TRP:HE1 | 1:A:12:GLY:H    | 17       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 14       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 14       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 14       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 14       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 14       | 2.92          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 14       | 2.92          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 16       | 2.92          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 4        | 2.92          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 6        | 2.92          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 6        | 2.92          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 1        | 2.92          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3  | 18       | 2.92          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2  | 11       | 2.92          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3  | 11       | 2.92          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 17       | 2.91          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1  | 12       | 2.91          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 10       | 2.91          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 10       | 2.91          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 10       | 2.91          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 10       | 2.91          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H    | 5        | 2.91          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 9        | 2.91          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3  | 12       | 2.91          |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3  | 3        | 2.91          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H    | 2        | 2.91          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H    | 14       | 2.91          |
| (1,4709) | 1:A:27:GLY:HA3 | 1:A:29:GLY:HA3  | 10       | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 1        | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 2        | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 4        | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 7        | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 9        | 2.91          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 11       | 2.91          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H    | 2        | 2.91          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H    | 5        | 2.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H    | 13       | 2.91          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H    | 15       | 2.91          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H    | 17       | 2.91          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA2  | 10       | 2.91          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA2  | 10       | 2.91          |
| (1,4559) | 1:A:25:TYR:HD1 | 1:A:27:GLY:HA3  | 10       | 2.91          |
| (1,4559) | 1:A:25:TYR:HD2 | 1:A:27:GLY:HA3  | 10       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2  | 14       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3  | 14       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2  | 18       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3  | 18       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2  | 19       | 2.91          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3  | 19       | 2.91          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 8        | 2.91          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 8        | 2.91          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 8        | 2.91          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 8        | 2.91          |
| (1,4222) | 1:A:22:GLN:HB3 | 1:A:25:TYR:H    | 19       | 2.91          |
| (1,4014) | 1:A:21:SER:H   | 1:A:22:GLN:HG3  | 20       | 2.91          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2  | 15       | 2.91          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3  | 15       | 2.91          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA   | 11       | 2.91          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H    | 6        | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 1        | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 1        | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 7        | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 7        | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2  | 11       | 2.91          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3  | 11       | 2.91          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2  | 3        | 2.91          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2  | 6        | 2.91          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 8        | 2.91          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 13       | 2.91          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 18       | 2.91          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 19       | 2.91          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2  | 14       | 2.91          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3  | 14       | 2.91          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 10       | 2.91          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H    | 9        | 2.91          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 9        | 2.91          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 9        | 2.91          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 9        | 2.91          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 5        | 2.91          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 3        | 2.91          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 3        | 2.91          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 19       | 2.91          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 19       | 2.91          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 2        | 2.91          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 1        | 2.91          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 10       | 2.91          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 7        | 2.91          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 16       | 2.91          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 18       | 2.91          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 19       | 2.91          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 9        | 2.91          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 10       | 2.91          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 10       | 2.91          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 1        | 2.91          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 1        | 2.91          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 1        | 2.91          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 3        | 2.91          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 9        | 2.91          |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 9        | 2.91          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 14       | 2.9           |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 14       | 2.9           |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 2        | 2.9           |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 2        | 2.9           |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 2        | 2.9           |
| (1,4905) | 1:A:31:LYS:HE2 | 1:A:34:ALA:HA  | 14       | 2.9           |
| (1,4905) | 1:A:31:LYS:HE3 | 1:A:34:ALA:HA  | 14       | 2.9           |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 1        | 2.9           |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 6        | 2.9           |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 1        | 2.9           |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 1        | 2.9           |
| (1,4759) | 1:A:29:GLY:H   | 1:A:30:PRO:HB3 | 10       | 2.9           |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 4        | 2.9           |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 9        | 2.9           |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 10       | 2.9           |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 13       | 2.9           |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 15       | 2.9           |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 3        | 2.9           |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 5        | 2.9           |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 6        | 2.9           |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 17       | 2.9           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 7        | 2.9           |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 8        | 2.9           |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 9        | 2.9           |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 10       | 2.9           |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 12       | 2.9           |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 14       | 2.9           |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 20       | 2.9           |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 20       | 2.9           |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 20       | 2.9           |
| (1,4163) | 1:A:22:GLN:HB2 | 1:A:25:TYR:H   | 20       | 2.9           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 10       | 2.9           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 10       | 2.9           |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 17       | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 9        | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 9        | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 16       | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 16       | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 20       | 2.9           |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 20       | 2.9           |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 6        | 2.9           |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 4        | 2.9           |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 16       | 2.9           |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2 | 16       | 2.9           |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 16       | 2.9           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 6        | 2.9           |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 5        | 2.9           |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 20       | 2.9           |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 20       | 2.9           |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 18       | 2.9           |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 9        | 2.9           |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 20       | 2.9           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 20       | 2.9           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 20       | 2.9           |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 7        | 2.9           |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB2 | 13       | 2.9           |
| (1,1059) | 1:A:4:ASN:H    | 1:A:11:TRP:HB3 | 13       | 2.9           |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 9        | 2.89          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 12       | 2.89          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 12       | 2.89          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 12       | 2.89          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 13       | 2.89          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 13       | 2.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 5        | 2.89          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 5        | 2.89          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 11       | 2.89          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 1        | 2.89          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 1        | 2.89          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 15       | 2.89          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 3        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 3        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 5        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 5        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 6        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 6        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 9        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 9        | 2.89          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 17       | 2.89          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 17       | 2.89          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 2        | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 7        | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 7        | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 7        | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 16       | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 16       | 2.89          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 16       | 2.89          |
| (1,4808) | 1:A:30:PRO:HB2 | 1:A:35:HIS:HE1 | 20       | 2.89          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 10       | 2.89          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 10       | 2.89          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 16       | 2.89          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 18       | 2.89          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 19       | 2.89          |
| (1,4633) | 1:A:26:CYS:HA  | 1:A:28:SER:H   | 20       | 2.89          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA2 | 12       | 2.89          |
| (1,4506) | 1:A:25:TYR:H   | 1:A:27:GLY:HA3 | 12       | 2.89          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 17       | 2.89          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 17       | 2.89          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 3        | 2.89          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 18       | 2.89          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 18       | 2.89          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 4        | 2.89          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 13       | 2.89          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 10       | 2.89          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 18       | 2.89          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 19       | 2.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 6        | 2.89          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 15       | 2.89          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 11       | 2.89          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 11       | 2.89          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 20       | 2.89          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 20       | 2.89          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 17       | 2.89          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 17       | 2.89          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 13       | 2.89          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 7        | 2.89          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 14       | 2.89          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 19       | 2.89          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 20       | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 7        | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 8        | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 13       | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 16       | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 18       | 2.89          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 19       | 2.89          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 4        | 2.89          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 15       | 2.89          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 15       | 2.89          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 16       | 2.88          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 20       | 2.88          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 7        | 2.88          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 7        | 2.88          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 20       | 2.88          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 20       | 2.88          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 20       | 2.88          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 20       | 2.88          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 7        | 2.88          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 19       | 2.88          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 5        | 2.88          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 10       | 2.88          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 10       | 2.88          |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 13       | 2.88          |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 13       | 2.88          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 1        | 2.88          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 1        | 2.88          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H   | 11       | 2.88          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H   | 11       | 2.88          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 3        | 2.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 9        | 2.88          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 8        | 2.88          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 10       | 2.88          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 15       | 2.88          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 15       | 2.88          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 15       | 2.88          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 15       | 2.88          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H   | 7        | 2.88          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 7        | 2.88          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 9        | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 5        | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 5        | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 13       | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 13       | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 20       | 2.88          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 20       | 2.88          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 8        | 2.88          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 3        | 2.88          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 3        | 2.88          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 5        | 2.88          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 11       | 2.88          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 14       | 2.88          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 15       | 2.88          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB2 | 19       | 2.88          |
| (1,3944) | 1:A:20:CYS:H   | 1:A:33:CYS:HB3 | 19       | 2.88          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H   | 18       | 2.88          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 8        | 2.88          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 10       | 2.88          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 2        | 2.88          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2 | 8        | 2.88          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 8        | 2.88          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 7        | 2.88          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 9        | 2.88          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 18       | 2.88          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 19       | 2.88          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 20       | 2.88          |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3 | 19       | 2.88          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3 | 19       | 2.88          |
| (1,3196) | 1:A:14:CYS:HB2 | 1:A:17:GLY:H   | 14       | 2.88          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2 | 16       | 2.88          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3 | 16       | 2.88          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 13       | 2.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 8        | 2.88          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 8        | 2.88          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 10       | 2.88          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 10       | 2.88          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 20       | 2.88          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 20       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 12       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 12       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 12       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 12       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 12       | 2.88          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 12       | 2.88          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H    | 12       | 2.88          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H    | 13       | 2.88          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2  | 12       | 2.88          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 14       | 2.88          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 2        | 2.88          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 2        | 2.88          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H     | 17       | 2.88          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 7        | 2.88          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 7        | 2.88          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 2        | 2.88          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 2        | 2.88          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1  | 8        | 2.88          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2  | 8        | 2.88          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3  | 8        | 2.88          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 7        | 2.87          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 8        | 2.87          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2  | 19       | 2.87          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2  | 19       | 2.87          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1  | 20       | 2.87          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2  | 18       | 2.87          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3  | 18       | 2.87          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2  | 18       | 2.87          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3  | 18       | 2.87          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 5        | 2.87          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 13       | 2.87          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H    | 12       | 2.87          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H    | 12       | 2.87          |
| (1,4930) | 1:A:32:TYR:HE1 | 1:A:33:CYS:H    | 14       | 2.87          |
| (1,4930) | 1:A:32:TYR:HE2 | 1:A:33:CYS:H    | 14       | 2.87          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 17       | 2.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 8        | 2.87          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 13       | 2.87          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 6        | 2.87          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 6        | 2.87          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 6        | 2.87          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG2 | 4        | 2.87          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG2 | 4        | 2.87          |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG3 | 4        | 2.87          |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG3 | 4        | 2.87          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 2        | 2.87          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 2        | 2.87          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 5        | 2.87          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 5        | 2.87          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 4        | 2.87          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 2        | 2.87          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 1        | 2.87          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H   | 15       | 2.87          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 11       | 2.87          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H   | 16       | 2.87          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA  | 7        | 2.87          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA  | 7        | 2.87          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 12       | 2.87          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 5        | 2.87          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 9        | 2.87          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 9        | 2.87          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 8        | 2.87          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 5        | 2.87          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 15       | 2.87          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 15       | 2.87          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 15       | 2.87          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 18       | 2.87          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 18       | 2.87          |
| (1,1315) | 1:A:4:ASN:HD22 | 1:A:6:GLN:H    | 15       | 2.87          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 8        | 2.86          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 8        | 2.86          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 16       | 2.86          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 16       | 2.86          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 17       | 2.86          |
| (1,603)  | 1:A:2:GLY:H    | 1:A:8:GLY:H    | 10       | 2.86          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 1        | 2.86          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 1        | 2.86          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 1        | 2.86          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3 | 1        | 2.86          |
| (1,554)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HE  | 1        | 2.86          |
| (1,554)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HE  | 1        | 2.86          |
| (1,541)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HE21 | 13       | 2.86          |
| (1,541)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HE21 | 13       | 2.86          |
| (1,541)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HE22 | 13       | 2.86          |
| (1,541)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HE22 | 13       | 2.86          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 4        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 2        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 2        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 4        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 4        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 8        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 8        | 2.86          |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 13       | 2.86          |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 13       | 2.86          |
| (1,4930) | 1:A:32:TYR:HE1  | 1:A:33:CYS:H   | 15       | 2.86          |
| (1,4930) | 1:A:32:TYR:HE2  | 1:A:33:CYS:H   | 15       | 2.86          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1 | 4        | 2.86          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2 | 4        | 2.86          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3 | 4        | 2.86          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 9        | 2.86          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 9        | 2.86          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1 | 14       | 2.86          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2 | 14       | 2.86          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE2 | 19       | 2.86          |
| (1,4407) | 1:A:23:TYR:HD1  | 1:A:31:LYS:HE3 | 19       | 2.86          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE2 | 19       | 2.86          |
| (1,4407) | 1:A:23:TYR:HD2  | 1:A:31:LYS:HE3 | 19       | 2.86          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1 | 8        | 2.86          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2 | 8        | 2.86          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 17       | 2.86          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD1 | 1        | 2.86          |
| (1,4264) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HD2 | 1        | 2.86          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 20       | 2.86          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 10       | 2.86          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 10       | 2.86          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3 | 6        | 2.86          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 8        | 2.86          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 8        | 2.86          |
| (1,4013) | 1:A:21:SER:H    | 1:A:22:GLN:HB2 | 1        | 2.86          |
| (1,4013) | 1:A:21:SER:H    | 1:A:22:GLN:HB3 | 1        | 2.86          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H   | 13       | 2.86          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 4        | 2.86          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 17       | 2.86          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 3        | 2.86          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 9        | 2.86          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H   | 11       | 2.86          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2 | 9        | 2.86          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3 | 9        | 2.86          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H   | 9        | 2.86          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 7        | 2.86          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 8        | 2.86          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 6        | 2.86          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 12       | 2.86          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2 | 8        | 2.86          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3 | 8        | 2.86          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 15       | 2.86          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 17       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 2        | 2.86          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 2        | 2.86          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 12       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 12       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 18       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 18       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 19       | 2.86          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 19       | 2.86          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 9        | 2.86          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 9        | 2.86          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 2        | 2.86          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 11       | 2.86          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 16       | 2.86          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 16       | 2.86          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 12       | 2.86          |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2 | 18       | 2.85          |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2 | 18       | 2.85          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 11       | 2.85          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 19       | 2.85          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 20       | 2.85          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 20       | 2.85          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 20       | 2.85          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 20       | 2.85          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 2        | 2.85          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 4        | 2.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 2        | 2.85          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 4        | 2.85          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 8        | 2.85          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 17       | 2.85          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 7        | 2.85          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 16       | 2.85          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 4        | 2.85          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 4        | 2.85          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1  | 16       | 2.85          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2  | 16       | 2.85          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 8        | 2.85          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 8        | 2.85          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 9        | 2.85          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 9        | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 4        | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 4        | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 7        | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 7        | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 15       | 2.85          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 15       | 2.85          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 10       | 2.85          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 10       | 2.85          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2  | 16       | 2.85          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3  | 16       | 2.85          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H    | 1        | 2.85          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 1        | 2.85          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA2  | 7        | 2.85          |
| (1,3652) | 1:A:18:LEU:H   | 1:A:27:GLY:HA3  | 7        | 2.85          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H    | 8        | 2.85          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 8        | 2.85          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 8        | 2.85          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 8        | 2.85          |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG   | 16       | 2.85          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 11       | 2.85          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2  | 13       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 1        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 2        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 3        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 4        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 5        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 6        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3  | 7        | 2.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 8        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 9        | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 10       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 11       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 12       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 14       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 16       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 18       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 19       | 2.85          |
| (1,2635) | 1:A:11:TRP:HB2 | 1:A:11:TRP:HZ3 | 20       | 2.85          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 3        | 2.85          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 3        | 2.85          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 5        | 2.85          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 5        | 2.85          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 16       | 2.85          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 16       | 2.85          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 8        | 2.85          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 8        | 2.85          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 12       | 2.85          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 12       | 2.85          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H   | 4        | 2.85          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 15       | 2.85          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 1        | 2.85          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 6        | 2.85          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2 | 10       | 2.85          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 10       | 2.85          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3 | 16       | 2.85          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 18       | 2.84          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 17       | 2.84          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 17       | 2.84          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 19       | 2.84          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 19       | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 2        | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 8        | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 12       | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 13       | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 16       | 2.84          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 18       | 2.84          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 1        | 2.84          |
| (1,4926) | 1:A:32:TYR:HB3 | 1:A:35:HIS:H   | 20       | 2.84          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 8        | 2.84          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 8        | 2.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H    | 7        | 2.84          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H    | 11       | 2.84          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H    | 18       | 2.84          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 12       | 2.84          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H    | 8        | 2.84          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H    | 12       | 2.84          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H    | 19       | 2.84          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 9        | 2.84          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 9        | 2.84          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 10       | 2.84          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 10       | 2.84          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 16       | 2.84          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 16       | 2.84          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1  | 12       | 2.84          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2  | 12       | 2.84          |
| (1,3991) | 1:A:20:CYS:HB3 | 1:A:25:TYR:H    | 10       | 2.84          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 11       | 2.84          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 8        | 2.84          |
| (1,3692) | 1:A:18:LEU:HB2 | 1:A:28:SER:H    | 14       | 2.84          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 7        | 2.84          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 12       | 2.84          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 18       | 2.84          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 19       | 2.84          |
| (1,3591) | 1:A:17:GLY:HA2 | 1:A:19:CYS:H    | 12       | 2.84          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 12       | 2.84          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 12       | 2.84          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 12       | 2.84          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 13       | 2.84          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H    | 20       | 2.84          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 8        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 4        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 4        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 6        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 6        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 7        | 2.84          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 7        | 2.84          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2  | 4        | 2.84          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 5        | 2.84          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 5        | 2.84          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 19       | 2.84          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 19       | 2.84          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 11       | 2.83          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3   | 11       | 2.83          |
| (1,952)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HB3   | 19       | 2.83          |
| (1,899)  | 1:A:3:PRO:HG2   | 1:A:11:TRP:HE3  | 15       | 2.83          |
| (1,899)  | 1:A:3:PRO:HG3   | 1:A:11:TRP:HE3  | 15       | 2.83          |
| (1,749)  | 1:A:3:PRO:HA    | 1:A:4:ASN:HD22  | 5        | 2.83          |
| (1,749)  | 1:A:3:PRO:HA    | 1:A:4:ASN:HD22  | 6        | 2.83          |
| (1,749)  | 1:A:3:PRO:HA    | 1:A:4:ASN:HD22  | 7        | 2.83          |
| (1,749)  | 1:A:3:PRO:HA    | 1:A:4:ASN:HD22  | 10       | 2.83          |
| (1,612)  | 1:A:2:GLY:H     | 1:A:11:TRP:HH2  | 12       | 2.83          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB2  | 5        | 2.83          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB2  | 5        | 2.83          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB3  | 5        | 2.83          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3  | 5        | 2.83          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H    | 3        | 2.83          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H    | 3        | 2.83          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2  | 13       | 2.83          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3  | 13       | 2.83          |
| (1,4846) | 1:A:30:PRO:HD3  | 1:A:34:ALA:H    | 3        | 2.83          |
| (1,4846) | 1:A:30:PRO:HD3  | 1:A:34:ALA:H    | 6        | 2.83          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1  | 18       | 2.83          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2  | 18       | 2.83          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE1  | 19       | 2.83          |
| (1,4744) | 1:A:28:SER:HB2  | 1:A:32:TYR:HE2  | 19       | 2.83          |
| (1,4505) | 1:A:25:TYR:H    | 1:A:27:GLY:H    | 18       | 2.83          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1  | 11       | 2.83          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2  | 11       | 2.83          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA   | 11       | 2.83          |
| (1,4013) | 1:A:21:SER:H    | 1:A:22:GLN:HB2  | 20       | 2.83          |
| (1,4013) | 1:A:21:SER:H    | 1:A:22:GLN:HB3  | 20       | 2.83          |
| (1,3991) | 1:A:20:CYS:HB3  | 1:A:25:TYR:H    | 2        | 2.83          |
| (1,3884) | 1:A:19:CYS:HB2  | 1:A:35:HIS:H    | 1        | 2.83          |
| (1,3693) | 1:A:18:LEU:HB2  | 1:A:28:SER:HB3  | 12       | 2.83          |
| (1,3689) | 1:A:18:LEU:HB2  | 1:A:26:CYS:H    | 14       | 2.83          |
| (1,3675) | 1:A:18:LEU:HB2  | 1:A:20:CYS:H    | 5        | 2.83          |
| (1,3675) | 1:A:18:LEU:HB2  | 1:A:20:CYS:H    | 6        | 2.83          |
| (1,3675) | 1:A:18:LEU:HB2  | 1:A:20:CYS:H    | 8        | 2.83          |
| (1,3675) | 1:A:18:LEU:HB2  | 1:A:20:CYS:H    | 16       | 2.83          |
| (1,3675) | 1:A:18:LEU:HB2  | 1:A:20:CYS:H    | 20       | 2.83          |
| (1,3651) | 1:A:18:LEU:H    | 1:A:27:GLY:H    | 3        | 2.83          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 17       | 2.83          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 17       | 2.83          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 17       | 2.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 17       | 2.83          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 17       | 2.83          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 17       | 2.83          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA   | 8        | 2.83          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA   | 8        | 2.83          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2  | 15       | 2.83          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2  | 17       | 2.83          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 17       | 2.83          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 15       | 2.83          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 15       | 2.83          |
| (1,1994) | 1:A:7:CYS:HB2  | 1:A:19:CYS:H    | 17       | 2.83          |
| (1,1994) | 1:A:7:CYS:HB3  | 1:A:19:CYS:H    | 17       | 2.83          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2  | 3        | 2.83          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2  | 14       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 13       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 13       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 13       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 13       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 13       | 2.83          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 13       | 2.83          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 7        | 2.82          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 7        | 2.82          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 18       | 2.82          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 18       | 2.82          |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1  | 18       | 2.82          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 13       | 2.82          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2  | 13       | 2.82          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3  | 13       | 2.82          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3  | 13       | 2.82          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1  | 16       | 2.82          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1  | 16       | 2.82          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 17       | 2.82          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 17       | 2.82          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 6        | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 11       | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 11       | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 11       | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 11       | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 11       | 2.82          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 11       | 2.82          |
| (1,4909) | 1:A:31:LYS:HZ1 | 1:A:33:CYS:H    | 6        | 2.82          |
| (1,4909) | 1:A:31:LYS:HZ2 | 1:A:33:CYS:H    | 6        | 2.82          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4909) | 1:A:31:LYS:HZ3 | 1:A:33:CYS:H   | 6        | 2.82          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 10       | 2.82          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 10       | 2.82          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 1        | 2.82          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 11       | 2.82          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 14       | 2.82          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 7        | 2.82          |
| (1,4772) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HG2 | 1        | 2.82          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ1 | 6        | 2.82          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ2 | 6        | 2.82          |
| (1,4766) | 1:A:29:GLY:H   | 1:A:31:LYS:HZ3 | 6        | 2.82          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE1 | 20       | 2.82          |
| (1,4744) | 1:A:28:SER:HB2 | 1:A:32:TYR:HE2 | 20       | 2.82          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 14       | 2.82          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 16       | 2.82          |
| (1,4505) | 1:A:25:TYR:H   | 1:A:27:GLY:H   | 20       | 2.82          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2 | 5        | 2.82          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2 | 5        | 2.82          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3 | 5        | 2.82          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3 | 5        | 2.82          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1 | 20       | 2.82          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 5        | 2.82          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H   | 9        | 2.82          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H   | 13       | 2.82          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H   | 5        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 1        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 2        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 3        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 4        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 5        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 6        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 7        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 8        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 9        | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 10       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 11       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 12       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 14       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 16       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 18       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 19       | 2.82          |
| (1,2675) | 1:A:11:TRP:HB3 | 1:A:11:TRP:HH2 | 20       | 2.82          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2 | 5        | 2.82          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3 | 5        | 2.82          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2 | 6        | 2.82          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3 | 6        | 2.82          |
| (1,1628) | 1:A:6:GLN:HB3   | 1:A:12:GLY:H   | 17       | 2.82          |
| (1,1590) | 1:A:6:GLN:HB2   | 1:A:12:GLY:H   | 17       | 2.82          |
| (1,1437) | 1:A:5:GLY:H     | 1:A:25:TYR:HB2 | 13       | 2.82          |
| (1,1437) | 1:A:5:GLY:H     | 1:A:25:TYR:HB3 | 13       | 2.82          |
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 6        | 2.82          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 7        | 2.82          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 7        | 2.82          |
| (1,1062) | 1:A:4:ASN:H     | 1:A:11:TRP:HZ3 | 11       | 2.82          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG2  | 13       | 2.81          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3  | 13       | 2.81          |
| (1,612)  | 1:A:2:GLY:H     | 1:A:11:TRP:HH2 | 16       | 2.81          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB2 | 10       | 2.81          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB2 | 10       | 2.81          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB3 | 10       | 2.81          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3 | 10       | 2.81          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB2 | 7        | 2.81          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB2 | 7        | 2.81          |
| (1,552)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HB3 | 7        | 2.81          |
| (1,552)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HB3 | 7        | 2.81          |
| (1,512)  | 1:A:1:SER:HA    | 1:A:11:TRP:HZ3 | 4        | 2.81          |
| (1,4911) | 1:A:31:LYS:HZ1  | 1:A:34:ALA:H   | 14       | 2.81          |
| (1,4911) | 1:A:31:LYS:HZ2  | 1:A:34:ALA:H   | 14       | 2.81          |
| (1,4911) | 1:A:31:LYS:HZ3  | 1:A:34:ALA:H   | 14       | 2.81          |
| (1,4899) | 1:A:31:LYS:HD2  | 1:A:34:ALA:H   | 15       | 2.81          |
| (1,4899) | 1:A:31:LYS:HD3  | 1:A:34:ALA:H   | 15       | 2.81          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD2 | 15       | 2.81          |
| (1,4765) | 1:A:29:GLY:H    | 1:A:31:LYS:HD3 | 15       | 2.81          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1 | 7        | 2.81          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2 | 7        | 2.81          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 2        | 2.81          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 2        | 2.81          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 2        | 2.81          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 2        | 2.81          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1 | 12       | 2.81          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2 | 12       | 2.81          |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 20       | 2.81          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 20       | 2.81          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 20       | 2.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4270) | 1:A:22:GLN:HG3 | 1:A:35:HIS:H    | 1        | 2.81          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1  | 20       | 2.81          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2  | 20       | 2.81          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 7        | 2.81          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 13       | 2.81          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 15       | 2.81          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 1        | 2.81          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 10       | 2.81          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 2        | 2.81          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 4        | 2.81          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 6        | 2.81          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 1        | 2.81          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA   | 12       | 2.81          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA   | 12       | 2.81          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 19       | 2.81          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2  | 16       | 2.81          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3  | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 8        | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 16       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 18       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 18       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 18       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 18       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 18       | 2.81          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 18       | 2.81          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 3        | 2.81          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 9        | 2.81          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 2        | 2.81          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 2        | 2.81          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 15       | 2.8           |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 15       | 2.8           |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 16       | 2.8           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3  | 16       | 2.8           |
| (1,609)  | 1:A:2:GLY:H    | 1:A:11:TRP:HE1 | 9        | 2.8           |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 9        | 2.8           |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 9        | 2.8           |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 9        | 2.8           |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 9        | 2.8           |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 10       | 2.8           |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 10       | 2.8           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 7        | 2.8           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 7        | 2.8           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 7        | 2.8           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 7        | 2.8           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 16       | 2.8           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 16       | 2.8           |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 16       | 2.8           |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 16       | 2.8           |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE21 | 17       | 2.8           |
| (1,509)  | 1:A:1:SER:HA   | 1:A:6:GLN:HE22 | 17       | 2.8           |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 9        | 2.8           |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 16       | 2.8           |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 17       | 2.8           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 10       | 2.8           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2 | 10       | 2.8           |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 5        | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 18       | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 18       | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 19       | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 19       | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 20       | 2.8           |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 20       | 2.8           |
| (1,4829) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HB2 | 10       | 2.8           |
| (1,4829) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HB2 | 10       | 2.8           |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 8        | 2.8           |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 8        | 2.8           |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 19       | 2.8           |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2 | 1        | 2.8           |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3 | 1        | 2.8           |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD2 | 6        | 2.8           |
| (1,4765) | 1:A:29:GLY:H   | 1:A:31:LYS:HD3 | 6        | 2.8           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ1 | 6        | 2.8           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ2 | 6        | 2.8           |
| (1,4731) | 1:A:28:SER:H   | 1:A:31:LYS:HZ3 | 6        | 2.8           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 8        | 2.8           |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 12       | 2.8           |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 15       | 2.8           |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 13       | 2.8           |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 13       | 2.8           |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 13       | 2.8           |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 13       | 2.8           |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG2  | 2        | 2.8           |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG2  | 2        | 2.8           |
| (1,4406) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HG3  | 2        | 2.8           |
| (1,4406) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HG3  | 2        | 2.8           |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA   | 14       | 2.8           |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 16       | 2.8           |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 3        | 2.8           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2  | 14       | 2.8           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3  | 14       | 2.8           |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA   | 7        | 2.8           |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA   | 9        | 2.8           |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 2        | 2.8           |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 4        | 2.8           |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 13       | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 5        | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 5        | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 5        | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 5        | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 5        | 2.8           |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 5        | 2.8           |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 12       | 2.8           |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 12       | 2.8           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H    | 17       | 2.8           |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 2        | 2.8           |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 5        | 2.8           |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H    | 1        | 2.8           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 14       | 2.8           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 14       | 2.8           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 10       | 2.8           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 10       | 2.8           |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 12       | 2.79          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 12       | 2.79          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 4        | 2.79          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 8        | 2.79          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H    | 16       | 2.79          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 9        | 2.79          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H    | 10       | 2.79          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 16       | 2.79          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 16       | 2.79          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 8        | 2.79          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 8        | 2.79          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 13       | 2.79          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H    | 12       | 2.79          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 11       | 2.79          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 11       | 2.79          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 7        | 2.79          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA   | 20       | 2.79          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 5        | 2.79          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 6        | 2.79          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 11       | 2.79          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 17       | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 6        | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 6        | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 6        | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 6        | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 6        | 2.79          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 6        | 2.79          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 10       | 2.79          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H    | 9        | 2.79          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 9        | 2.79          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 12       | 2.79          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 13       | 2.79          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 1        | 2.79          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 1        | 2.79          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 10       | 2.79          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 6        | 2.79          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 10       | 2.79          |
| (1,1627) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HH2  | 17       | 2.79          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 2        | 2.79          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 8        | 2.78          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 8        | 2.78          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 8        | 2.78          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 8        | 2.78          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 8        | 2.78          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2  | 8        | 2.78          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3  | 8        | 2.78          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3  | 8        | 2.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 15       | 2.78          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 15       | 2.78          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 15       | 2.78          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 15       | 2.78          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2 | 18       | 2.78          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2 | 18       | 2.78          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3 | 18       | 2.78          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3 | 18       | 2.78          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 12       | 2.78          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 12       | 2.78          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21 | 12       | 2.78          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21 | 12       | 2.78          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22 | 12       | 2.78          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22 | 12       | 2.78          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 3        | 2.78          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 3        | 2.78          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 19       | 2.78          |
| (1,4846) | 1:A:30:PRO:HD3 | 1:A:34:ALA:H   | 20       | 2.78          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 20       | 2.78          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 4        | 2.78          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 6        | 2.78          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 17       | 2.78          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 3        | 2.78          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 3        | 2.78          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1 | 17       | 2.78          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2 | 17       | 2.78          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H   | 16       | 2.78          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 19       | 2.78          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 19       | 2.78          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 4        | 2.78          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 4        | 2.78          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD1 | 6        | 2.78          |
| (1,4107) | 1:A:22:GLN:H   | 1:A:25:TYR:HD2 | 6        | 2.78          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 18       | 2.78          |
| (1,4006) | 1:A:20:CYS:HB3 | 1:A:33:CYS:HA  | 19       | 2.78          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 7        | 2.78          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 9        | 2.78          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 16       | 2.78          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 20       | 2.78          |
| (1,3885) | 1:A:19:CYS:HB2 | 1:A:35:HIS:HD2 | 13       | 2.78          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 14       | 2.78          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 7        | 2.78          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H    | 3        | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 1        | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 1        | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 1        | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 13       | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 13       | 2.78          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 13       | 2.78          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 7        | 2.78          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 18       | 2.78          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 19       | 2.78          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 2        | 2.78          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 4        | 2.78          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 5        | 2.78          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 6        | 2.78          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 10       | 2.78          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 11       | 2.78          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 11       | 2.78          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 7        | 2.78          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 7        | 2.78          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 7        | 2.78          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 7        | 2.78          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 7        | 2.78          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 7        | 2.78          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 10       | 2.78          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 10       | 2.78          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 5        | 2.78          |
| (1,1765) | 1:A:6:GLN:HG3  | 1:A:25:TYR:H    | 6        | 2.78          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 17       | 2.78          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 17       | 2.78          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 2        | 2.78          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 13       | 2.78          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 20       | 2.78          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 5        | 2.78          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 5        | 2.78          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 6        | 2.78          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 6        | 2.78          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 5        | 2.78          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 7        | 2.77          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 7        | 2.77          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 16       | 2.77          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 16       | 2.77          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 12       | 2.77          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB2 | 12       | 2.77          |
| (1,557)  | 1:A:1:SER:HB2   | 1:A:18:LEU:HB3 | 12       | 2.77          |
| (1,557)  | 1:A:1:SER:HB3   | 1:A:18:LEU:HB3 | 12       | 2.77          |
| (1,541)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HE21 | 1        | 2.77          |
| (1,541)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HE21 | 1        | 2.77          |
| (1,541)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HE22 | 1        | 2.77          |
| (1,541)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HE22 | 1        | 2.77          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB2 | 10       | 2.77          |
| (1,4917) | 1:A:32:TYR:H    | 1:A:35:HIS:HB3 | 10       | 2.77          |
| (1,4861) | 1:A:31:LYS:HB2  | 1:A:34:ALA:H   | 20       | 2.77          |
| (1,4851) | 1:A:31:LYS:H    | 1:A:35:HIS:HB2 | 19       | 2.77          |
| (1,4846) | 1:A:30:PRO:HD3  | 1:A:34:ALA:H   | 18       | 2.77          |
| (1,4788) | 1:A:29:GLY:HA3  | 1:A:34:ALA:H   | 18       | 2.77          |
| (1,4788) | 1:A:29:GLY:HA3  | 1:A:34:ALA:H   | 19       | 2.77          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD2 | 13       | 2.77          |
| (1,4780) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HD3 | 13       | 2.77          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2 | 20       | 2.77          |
| (1,4668) | 1:A:26:CYS:HB3  | 1:A:28:SER:H   | 9        | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 2        | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 3        | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 10       | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 14       | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 16       | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 18       | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 19       | 2.77          |
| (1,4490) | 1:A:24:GLY:HA3  | 1:A:26:CYS:H   | 20       | 2.77          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1 | 15       | 2.77          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2 | 15       | 2.77          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 3        | 2.77          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 3        | 2.77          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 3        | 2.77          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD1 | 16       | 2.77          |
| (1,4107) | 1:A:22:GLN:H    | 1:A:25:TYR:HD2 | 16       | 2.77          |
| (1,4014) | 1:A:21:SER:H    | 1:A:22:GLN:HG3 | 1        | 2.77          |
| (1,4006) | 1:A:20:CYS:HB3  | 1:A:33:CYS:HA  | 16       | 2.77          |
| (1,3982) | 1:A:20:CYS:HB3  | 1:A:21:SER:HB3 | 18       | 2.77          |
| (1,3982) | 1:A:20:CYS:HB3  | 1:A:21:SER:HB3 | 19       | 2.77          |
| (1,3844) | 1:A:19:CYS:H    | 1:A:32:TYR:HA  | 10       | 2.77          |
| (1,3744) | 1:A:18:LEU:HG   | 1:A:28:SER:H   | 2        | 2.77          |
| (1,3360) | 1:A:15:ARG:HG2  | 1:A:19:CYS:HA  | 20       | 2.77          |
| (1,3360) | 1:A:15:ARG:HG3  | 1:A:19:CYS:HA  | 20       | 2.77          |
| (1,3245) | 1:A:14:CYS:HB3  | 1:A:27:GLY:HA2 | 20       | 2.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 15       | 2.77          |
| (1,3194) | 1:A:14:CYS:HB2 | 1:A:16:GLY:H   | 14       | 2.77          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1 | 3        | 2.77          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 17       | 2.77          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 17       | 2.77          |
| (1,1661) | 1:A:6:GLN:HB3  | 1:A:26:CYS:H   | 11       | 2.77          |
| (1,1475) | 1:A:5:GLY:HA3  | 1:A:14:CYS:HB3 | 14       | 2.77          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 3        | 2.77          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 3        | 2.77          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2 | 3        | 2.77          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3 | 3        | 2.77          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2 | 4        | 2.77          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3 | 4        | 2.77          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2  | 1        | 2.76          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3  | 1        | 2.76          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2  | 9        | 2.76          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3  | 9        | 2.76          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 13       | 2.76          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 9        | 2.76          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 11       | 2.76          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 11       | 2.76          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 11       | 2.76          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 11       | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 7        | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 7        | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 7        | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 16       | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 16       | 2.76          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 16       | 2.76          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 10       | 2.76          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 10       | 2.76          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 5        | 2.76          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 5        | 2.76          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 3        | 2.76          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 17       | 2.76          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 13       | 2.76          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 13       | 2.76          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 13       | 2.76          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H   | 11       | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 1        | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 5        | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 7        | 2.76          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 8        | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 9        | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 13       | 2.76          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H   | 15       | 2.76          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1 | 1        | 2.76          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2 | 1        | 2.76          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2 | 4        | 2.76          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3 | 4        | 2.76          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2 | 4        | 2.76          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3 | 4        | 2.76          |
| (1,4270) | 1:A:22:GLN:HG3 | 1:A:35:HIS:H   | 20       | 2.76          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 8        | 2.76          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 12       | 2.76          |
| (1,3847) | 1:A:19:CYS:H   | 1:A:33:CYS:HB2 | 12       | 2.76          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 12       | 2.76          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 10       | 2.76          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H   | 11       | 2.76          |
| (1,3675) | 1:A:18:LEU:HB2 | 1:A:20:CYS:H   | 14       | 2.76          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H   | 12       | 2.76          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H   | 18       | 2.76          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H   | 20       | 2.76          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 7        | 2.76          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 7        | 2.76          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 16       | 2.76          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H   | 20       | 2.76          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 14       | 2.76          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 14       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 1        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 1        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 2        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 2        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 3        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 3        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 4        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 4        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 5        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 5        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 6        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 6        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 7        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3  | 7        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2  | 8        | 2.76          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 8        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 9        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 9        | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 10       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 10       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 11       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 11       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 12       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 12       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 13       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 13       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 14       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 14       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 15       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 15       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 16       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 16       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 18       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 18       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 19       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 19       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB2   | 20       | 2.76          |
| (1,2022) | 1:A:8:GLY:H    | 1:A:9:PRO:HB3   | 20       | 2.76          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 9        | 2.76          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 9        | 2.76          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 9        | 2.76          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 9        | 2.76          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 9        | 2.76          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 9        | 2.76          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA   | 17       | 2.76          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 2        | 2.76          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 2        | 2.76          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 8        | 2.76          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 12       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 17       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 17       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 17       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 17       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 17       | 2.76          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 17       | 2.76          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 18       | 2.75          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 18       | 2.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 19       | 2.75          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 19       | 2.75          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 9        | 2.75          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 11       | 2.75          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 15       | 2.75          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H    | 17       | 2.75          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 14       | 2.75          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 15       | 2.75          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 7        | 2.75          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 16       | 2.75          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H    | 14       | 2.75          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 12       | 2.75          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1  | 16       | 2.75          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2  | 16       | 2.75          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 10       | 2.75          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 10       | 2.75          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 10       | 2.75          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 1        | 2.75          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 6        | 2.75          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 11       | 2.75          |
| (1,4490) | 1:A:24:GLY:HA3 | 1:A:26:CYS:H    | 11       | 2.75          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 6        | 2.75          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 6        | 2.75          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 16       | 2.75          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 16       | 2.75          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 2        | 2.75          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 5        | 2.75          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 11       | 2.75          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 14       | 2.75          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 15       | 2.75          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 16       | 2.75          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H    | 10       | 2.75          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 10       | 2.75          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 10       | 2.75          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 10       | 2.75          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 10       | 2.75          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 10       | 2.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 10       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 18       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 18       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 19       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 19       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 20       | 2.75          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 20       | 2.75          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 12       | 2.75          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 20       | 2.75          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H    | 14       | 2.75          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 9        | 2.75          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 20       | 2.75          |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H    | 13       | 2.75          |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H    | 13       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 19       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 20       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 20       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 20       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 20       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 20       | 2.75          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 20       | 2.75          |
| (1,1744) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HE3  | 17       | 2.75          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 4        | 2.75          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 7        | 2.75          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 16       | 2.75          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 18       | 2.75          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 19       | 2.75          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 19       | 2.75          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 6        | 2.75          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 6        | 2.75          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 18       | 2.75          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 18       | 2.75          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 19       | 2.75          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 19       | 2.75          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 20       | 2.75          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 20       | 2.74          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 20       | 2.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3  | 12       | 2.74          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3  | 12       | 2.74          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 7        | 2.74          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H    | 15       | 2.74          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 19       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1  | 18       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2  | 18       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1  | 19       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2  | 19       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1  | 20       | 2.74          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2  | 20       | 2.74          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 5        | 2.74          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 1        | 2.74          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 2        | 2.74          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 7        | 2.74          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1  | 17       | 2.74          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2  | 17       | 2.74          |
| (1,4210) | 1:A:22:GLN:HG2 | 1:A:35:HIS:H    | 17       | 2.74          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 9        | 2.74          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 8        | 2.74          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 1        | 2.74          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 8        | 2.74          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 19       | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 4        | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 4        | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 4        | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 4        | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 4        | 2.74          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 4        | 2.74          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 20       | 2.74          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 8        | 2.74          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 8        | 2.74          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 9        | 2.74          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 9        | 2.74          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 8        | 2.74          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 12       | 2.74          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 14       | 2.74          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1  | 19       | 2.74          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 3        | 2.74          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 18       | 2.74          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 17       | 2.74          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 17       | 2.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 12       | 2.74          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 12       | 2.74          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 12       | 2.74          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 12       | 2.74          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 12       | 2.74          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 12       | 2.74          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 16       | 2.73          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 14       | 2.73          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 14       | 2.73          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 5        | 2.73          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 5        | 2.73          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3  | 1        | 2.73          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 9        | 2.73          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 10       | 2.73          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 5        | 2.73          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 16       | 2.73          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 18       | 2.73          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 19       | 2.73          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 20       | 2.73          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 8        | 2.73          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 8        | 2.73          |
| (1,4047) | 1:A:21:SER:HB2 | 1:A:22:GLN:HE22 | 10       | 2.73          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 15       | 2.73          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 20       | 2.73          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 14       | 2.73          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 11       | 2.73          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 11       | 2.73          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 11       | 2.73          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 11       | 2.73          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 16       | 2.73          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 12       | 2.73          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 12       | 2.73          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 9        | 2.73          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 12       | 2.73          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 18       | 2.73          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 19       | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 1        | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 1        | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 8        | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 8        | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 11       | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 11       | 2.73          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 12       | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 12       | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 13       | 2.73          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 13       | 2.73          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1 | 7        | 2.73          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1 | 15       | 2.73          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1 | 16       | 2.73          |
| (1,2295) | 1:A:9:PRO:HG2  | 1:A:11:TRP:HD1 | 18       | 2.73          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 11       | 2.73          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 15       | 2.73          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 7        | 2.73          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 14       | 2.73          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 14       | 2.73          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 4        | 2.73          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 4        | 2.73          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 8        | 2.73          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 8        | 2.73          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 14       | 2.72          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 11       | 2.72          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 11       | 2.72          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 1        | 2.72          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 1        | 2.72          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 1        | 2.72          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 1        | 2.72          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2 | 19       | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 3        | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 3        | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 4        | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 4        | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 11       | 2.72          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 11       | 2.72          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 20       | 2.72          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 20       | 2.72          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 20       | 2.72          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 20       | 2.72          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 3        | 2.72          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 10       | 2.72          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 15       | 2.72          |
| (1,4885) | 1:A:31:LYS:HG3 | 1:A:33:CYS:H   | 6        | 2.72          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 9        | 2.72          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 18       | 2.72          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 18       | 2.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1  | 4        | 2.72          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1  | 4        | 2.72          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2  | 16       | 2.72          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3  | 16       | 2.72          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H    | 16       | 2.72          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H    | 20       | 2.72          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 4        | 2.72          |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H    | 17       | 2.72          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H    | 4        | 2.72          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 10       | 2.72          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 10       | 2.72          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 10       | 2.72          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 10       | 2.72          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 4        | 2.72          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 5        | 2.72          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 6        | 2.72          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 11       | 2.72          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3  | 13       | 2.72          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 18       | 2.72          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 19       | 2.72          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 9        | 2.72          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3  | 17       | 2.72          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 17       | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 3        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 3        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 3        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 4        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 4        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 4        | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 10       | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 10       | 2.72          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 10       | 2.72          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 12       | 2.72          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 8        | 2.72          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 16       | 2.72          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 18       | 2.72          |
| (1,3174) | 1:A:14:CYS:H   | 1:A:19:CYS:H    | 7        | 2.72          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 9        | 2.72          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 9        | 2.72          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 15       | 2.72          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 15       | 2.72          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 16       | 2.72          |

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| Key      | Atom-1        | Atom-2          | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB3  | 16       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB2  | 18       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB3  | 18       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB2  | 19       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB3  | 19       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB2  | 20       | 2.72          |
| (1,3085) | 1:A:13:GLY:H  | 1:A:14:CYS:HB3  | 20       | 2.72          |
| (1,2295) | 1:A:9:PRO:HG2 | 1:A:11:TRP:HD1  | 1        | 2.72          |
| (1,2295) | 1:A:9:PRO:HG2 | 1:A:11:TRP:HD1  | 11       | 2.72          |
| (1,1661) | 1:A:6:GLN:HB3 | 1:A:26:CYS:H    | 17       | 2.72          |
| (1,1589) | 1:A:6:GLN:HB2 | 1:A:11:TRP:H    | 8        | 2.72          |
| (1,1589) | 1:A:6:GLN:HB2 | 1:A:11:TRP:H    | 20       | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD11 | 1        | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD12 | 1        | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD13 | 1        | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD21 | 1        | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD22 | 1        | 2.72          |
| (1,1420) | 1:A:5:GLY:H   | 1:A:18:LEU:HD23 | 1        | 2.72          |
| (1,1405) | 1:A:5:GLY:H   | 1:A:11:TRP:HB2  | 14       | 2.72          |
| (1,1405) | 1:A:5:GLY:H   | 1:A:11:TRP:HB3  | 14       | 2.72          |
| (1,1405) | 1:A:5:GLY:H   | 1:A:11:TRP:HB2  | 17       | 2.72          |
| (1,1405) | 1:A:5:GLY:H   | 1:A:11:TRP:HB3  | 17       | 2.72          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB2   | 11       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB2   | 11       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB3   | 11       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB3   | 11       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB2   | 15       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB2   | 15       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB3   | 15       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB3   | 15       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB2   | 17       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB2   | 17       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG2 | 1:A:6:GLN:HB3   | 17       | 2.71          |
| (1,889)  | 1:A:3:PRO:HG3 | 1:A:6:GLN:HB3   | 17       | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG2   | 1        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG3   | 1        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG2   | 2        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG3   | 2        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG2   | 6        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG3   | 6        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG2   | 8        | 2.71          |
| (1,596)  | 1:A:2:GLY:H   | 1:A:3:PRO:HG3   | 8        | 2.71          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 15       | 2.71          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 15       | 2.71          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 19       | 2.71          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 19       | 2.71          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2  | 20       | 2.71          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 20       | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 9        | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 9        | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 9        | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 9        | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 16       | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 16       | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 16       | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 16       | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2 | 19       | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2 | 19       | 2.71          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3 | 19       | 2.71          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3 | 19       | 2.71          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 13       | 2.71          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 20       | 2.71          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 20       | 2.71          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 5        | 2.71          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 18       | 2.71          |
| (1,4851) | 1:A:31:LYS:H   | 1:A:35:HIS:HB2 | 20       | 2.71          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 16       | 2.71          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 18       | 2.71          |
| (1,4708) | 1:A:27:GLY:HA3 | 1:A:29:GLY:H   | 19       | 2.71          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 3        | 2.71          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1 | 15       | 2.71          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2 | 15       | 2.71          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 10       | 2.71          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 10       | 2.71          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB2 | 1        | 2.71          |
| (1,4045) | 1:A:21:SER:H   | 1:A:35:HIS:HB3 | 1        | 2.71          |
| (1,4012) | 1:A:21:SER:H   | 1:A:22:GLN:HG2 | 3        | 2.71          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 1        | 2.71          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 2        | 2.71          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 3        | 2.71          |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 10       | 2.71          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 16       | 2.71          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 16       | 2.71          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 18       | 2.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 19       | 2.71          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 20       | 2.71          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 8        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 3        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 3        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 3        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 3        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 3        | 2.71          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 3        | 2.71          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 20       | 2.71          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 20       | 2.71          |
| (1,3360) | 1:A:15:ARG:HG2 | 1:A:19:CYS:HA   | 18       | 2.71          |
| (1,3360) | 1:A:15:ARG:HG3 | 1:A:19:CYS:HA   | 18       | 2.71          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 9        | 2.71          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 16       | 2.71          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 19       | 2.71          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 8        | 2.71          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2  | 7        | 2.71          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3  | 7        | 2.71          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 16       | 2.71          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 13       | 2.71          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 13       | 2.71          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 17       | 2.71          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 17       | 2.71          |
| (1,1062) | 1:A:4:ASN:H    | 1:A:11:TRP:HZ3  | 9        | 2.71          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3   | 3        | 2.7           |
| (1,902)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HH2  | 9        | 2.7           |
| (1,902)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HH2  | 9        | 2.7           |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 12       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 5        | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 5        | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 7        | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 7        | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 10       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 10       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 12       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 12       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 13       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 13       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 16       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 16       | 2.7           |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 18       | 2.7           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3  | 18       | 2.7           |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 15       | 2.7           |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 15       | 2.7           |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 11       | 2.7           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 17       | 2.7           |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 17       | 2.7           |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 13       | 2.7           |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 15       | 2.7           |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 8        | 2.7           |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 8        | 2.7           |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H   | 3        | 2.7           |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H   | 6        | 2.7           |
| (1,4668) | 1:A:26:CYS:HB3 | 1:A:28:SER:H   | 10       | 2.7           |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 6        | 2.7           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1 | 16       | 2.7           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2 | 16       | 2.7           |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 8        | 2.7           |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 8        | 2.7           |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 10       | 2.7           |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 4        | 2.7           |
| (1,3982) | 1:A:20:CYS:HB3 | 1:A:21:SER:HB3 | 17       | 2.7           |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 13       | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 2        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 3        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 4        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 5        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 6        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 7        | 2.7           |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 10       | 2.7           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 7        | 2.7           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 18       | 2.7           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 19       | 2.7           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 20       | 2.7           |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 8        | 2.7           |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3 | 15       | 2.7           |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3 | 15       | 2.7           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 16       | 2.7           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 16       | 2.7           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 16       | 2.7           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 16       | 2.7           |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 8        | 2.7           |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 14       | 2.7           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 14       | 2.7           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 14       | 2.7           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 14       | 2.7           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 14       | 2.7           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 14       | 2.7           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 14       | 2.7           |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 12       | 2.7           |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 12       | 2.7           |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 17       | 2.7           |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 18       | 2.7           |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 19       | 2.7           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 6        | 2.7           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 6        | 2.7           |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3  | 1        | 2.7           |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 12       | 2.7           |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 7        | 2.7           |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 7        | 2.7           |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 13       | 2.69          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 13       | 2.69          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 13       | 2.69          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 13       | 2.69          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 18       | 2.69          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 18       | 2.69          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 18       | 2.69          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 18       | 2.69          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 18       | 2.69          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 5        | 2.69          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 9        | 2.69          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 11       | 2.69          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 2        | 2.69          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 4        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 3        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 3        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 4        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 4        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 6        | 2.69          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 6        | 2.69          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 13       | 2.69          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 13       | 2.69          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2  | 2        | 2.69          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3  | 2        | 2.69          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2  | 2        | 2.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3  | 2        | 2.69          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 5        | 2.69          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 5        | 2.69          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 18       | 2.69          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 7        | 2.69          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 9        | 2.69          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 16       | 2.69          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA   | 15       | 2.69          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 15       | 2.69          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 9        | 2.69          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 9        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 2        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 2        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 2        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 2        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 2        | 2.69          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 2        | 2.69          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H    | 14       | 2.69          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 11       | 2.69          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 11       | 2.69          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 20       | 2.69          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1  | 12       | 2.69          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2  | 12       | 2.69          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 12       | 2.69          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 12       | 2.69          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 2        | 2.68          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 2        | 2.68          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 4        | 2.68          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 4        | 2.68          |
| (1,612)  | 1:A:2:GLY:H    | 1:A:11:TRP:HH2  | 20       | 2.68          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 9        | 2.68          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 9        | 2.68          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 18       | 2.68          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2  | 18       | 2.68          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3  | 18       | 2.68          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3  | 18       | 2.68          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 17       | 2.68          |
| (1,4888) | 1:A:31:LYS:HG3 | 1:A:34:ALA:HA   | 15       | 2.68          |
| (1,4874) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HA   | 7        | 2.68          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 11       | 2.68          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 11       | 2.68          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 10       | 2.68          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 14       | 2.68          |
| (1,4712) | 1:A:27:GLY:HA3  | 1:A:32:TYR:H    | 18       | 2.68          |
| (1,4712) | 1:A:27:GLY:HA3  | 1:A:32:TYR:H    | 19       | 2.68          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 12       | 2.68          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 12       | 2.68          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 1        | 2.68          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2  | 13       | 2.68          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3  | 13       | 2.68          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2  | 13       | 2.68          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3  | 13       | 2.68          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 1        | 2.68          |
| (1,4237) | 1:A:22:GLN:HB3  | 1:A:32:TYR:HA   | 10       | 2.68          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE1  | 3        | 2.68          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE2  | 3        | 2.68          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3  | 9        | 2.68          |
| (1,4012) | 1:A:21:SER:H    | 1:A:22:GLN:HG2  | 10       | 2.68          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 18       | 2.68          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 19       | 2.68          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 20       | 2.68          |
| (1,3834) | 1:A:19:CYS:H    | 1:A:29:GLY:H    | 7        | 2.68          |
| (1,3820) | 1:A:19:CYS:H    | 1:A:20:CYS:HB2  | 13       | 2.68          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H    | 8        | 2.68          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H    | 8        | 2.68          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB2  | 16       | 2.68          |
| (1,3086) | 1:A:13:GLY:H    | 1:A:15:ARG:HB3  | 16       | 2.68          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 2        | 2.68          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 4        | 2.68          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 5        | 2.68          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 6        | 2.68          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 10       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD11 | 15       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD12 | 15       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD13 | 15       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD11 | 15       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD12 | 15       | 2.68          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD13 | 15       | 2.68          |
| (1,1743) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HB3  | 7        | 2.68          |
| (1,1743) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HB3  | 8        | 2.68          |
| (1,1743) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HB3  | 14       | 2.68          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1  | 3        | 2.68          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2  | 3        | 2.68          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 9        | 2.68          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 16       | 2.68          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 16       | 2.68          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 7        | 2.67          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG2   | 17       | 2.67          |
| (1,596)  | 1:A:2:GLY:H    | 1:A:3:PRO:HG3   | 17       | 2.67          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 17       | 2.67          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2  | 17       | 2.67          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3  | 17       | 2.67          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3  | 17       | 2.67          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 20       | 2.67          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 20       | 2.67          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 20       | 2.67          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 20       | 2.67          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 10       | 2.67          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 10       | 2.67          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2  | 19       | 2.67          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3  | 19       | 2.67          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H    | 8        | 2.67          |
| (1,4712) | 1:A:27:GLY:HA3 | 1:A:32:TYR:H    | 20       | 2.67          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 7        | 2.67          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 7        | 2.67          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 7        | 2.67          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 7        | 2.67          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 2        | 2.67          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 2        | 2.67          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 3        | 2.67          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3  | 8        | 2.67          |
| (1,4012) | 1:A:21:SER:H   | 1:A:22:GLN:HG2  | 15       | 2.67          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 17       | 2.67          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 15       | 2.67          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H    | 7        | 2.67          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 10       | 2.67          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 10       | 2.67          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 1        | 2.67          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 3        | 2.67          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 12       | 2.67          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 16       | 2.67          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 1        | 2.67          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 15       | 2.67          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 15       | 2.67          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 15       | 2.67          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 15       | 2.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 15       | 2.67          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 15       | 2.67          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 9        | 2.66          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 9        | 2.66          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 9        | 2.66          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 9        | 2.66          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 8        | 2.66          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 8        | 2.66          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 19       | 2.66          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 19       | 2.66          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 12       | 2.66          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3  | 10       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2  | 20       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2  | 20       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2  | 20       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3  | 20       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3  | 20       | 2.66          |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3  | 20       | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 8        | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 8        | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 8        | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 8        | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 8        | 2.66          |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 8        | 2.66          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 12       | 2.66          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 18       | 2.66          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA   | 18       | 2.66          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 19       | 2.66          |
| (1,4875) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HB3  | 20       | 2.66          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H    | 1        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 2        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 2        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 4        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 4        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 5        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 5        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 7        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 7        | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 13       | 2.66          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 13       | 2.66          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 20       | 2.66          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 20       | 2.66          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1  | 3        | 2.66          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2  | 3        | 2.66          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 14       | 2.66          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 14       | 2.66          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2  | 3        | 2.66          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3  | 3        | 2.66          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 8        | 2.66          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 8        | 2.66          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2  | 1        | 2.66          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 14       | 2.66          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 14       | 2.66          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 14       | 2.66          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 7        | 2.66          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3  | 6        | 2.66          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 13       | 2.66          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H    | 11       | 2.66          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 5        | 2.66          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 5        | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 11       | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 11       | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 11       | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 11       | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 11       | 2.66          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 11       | 2.66          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2   | 10       | 2.65          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3   | 10       | 2.65          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 20       | 2.65          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 20       | 2.65          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 20       | 2.65          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 20       | 2.65          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2   | 8        | 2.65          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB2  | 7        | 2.65          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB2  | 7        | 2.65          |
| (1,557)  | 1:A:1:SER:HB2  | 1:A:18:LEU:HB3  | 7        | 2.65          |
| (1,557)  | 1:A:1:SER:HB3  | 1:A:18:LEU:HB3  | 7        | 2.65          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 1        | 2.65          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 9        | 2.65          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H    | 14       | 2.65          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 6        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 1        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3  | 1        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2  | 3        | 2.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 3        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 6        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 6        | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 11       | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 11       | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 15       | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 15       | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 17       | 2.65          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 17       | 2.65          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 4        | 2.65          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 12       | 2.65          |
| (1,4788) | 1:A:29:GLY:HA3 | 1:A:34:ALA:H   | 14       | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 2        | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 2        | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 4        | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 4        | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 13       | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 13       | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 18       | 2.65          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 18       | 2.65          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 2        | 2.65          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 12       | 2.65          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1 | 18       | 2.65          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2 | 18       | 2.65          |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1 | 7        | 2.65          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 10       | 2.65          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 6        | 2.65          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2 | 10       | 2.65          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3 | 10       | 2.65          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3 | 16       | 2.65          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H   | 3        | 2.65          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 1        | 2.65          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 11       | 2.65          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 4        | 2.65          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 9        | 2.65          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 11       | 2.65          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 7        | 2.65          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 7        | 2.65          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 15       | 2.65          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 16       | 2.65          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 14       | 2.65          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 14       | 2.65          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1984) | 1:A:7:CYS:HB2   | 1:A:15:ARG:H   | 15       | 2.65          |
| (1,1984) | 1:A:7:CYS:HB3   | 1:A:15:ARG:H   | 15       | 2.65          |
| (1,1743) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HB3 | 9        | 2.65          |
| (1,1625) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ3 | 4        | 2.65          |
| (1,1625) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ3 | 5        | 2.65          |
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 13       | 2.65          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG2  | 3        | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3  | 3        | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG2  | 14       | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3  | 14       | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG2  | 17       | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3  | 17       | 2.64          |
| (1,952)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HB3  | 2        | 2.64          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB2  | 12       | 2.64          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB2  | 12       | 2.64          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB3  | 12       | 2.64          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB3  | 12       | 2.64          |
| (1,680)  | 1:A:2:GLY:HA2   | 1:A:6:GLN:HG2  | 1        | 2.64          |
| (1,4936) | 1:A:33:CYS:H    | 1:A:35:HIS:HA  | 9        | 2.64          |
| (1,4898) | 1:A:31:LYS:HB3  | 1:A:34:ALA:H   | 19       | 2.64          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H   | 16       | 2.64          |
| (1,4861) | 1:A:31:LYS:HB2  | 1:A:34:ALA:H   | 1        | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB2 | 8        | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB3 | 8        | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB2 | 9        | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB3 | 9        | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB2 | 14       | 2.64          |
| (1,4843) | 1:A:30:PRO:HD3  | 1:A:32:TYR:HB3 | 14       | 2.64          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD2 | 3        | 2.64          |
| (1,4774) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HD3 | 3        | 2.64          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA  | 16       | 2.64          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA  | 16       | 2.64          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H   | 11       | 2.64          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 1        | 2.64          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 17       | 2.64          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 17       | 2.64          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1 | 15       | 2.64          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2 | 15       | 2.64          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 15       | 2.64          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 15       | 2.64          |
| (1,3949) | 1:A:20:CYS:H    | 1:A:35:HIS:HE1 | 1        | 2.64          |
| (1,3844) | 1:A:19:CYS:H    | 1:A:32:TYR:HA  | 2        | 2.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 13       | 2.64          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 14       | 2.64          |
| (1,3820) | 1:A:19:CYS:H   | 1:A:20:CYS:HB2 | 17       | 2.64          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 5        | 2.64          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 5        | 2.64          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 3        | 2.64          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 9        | 2.64          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 14       | 2.64          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 14       | 2.64          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 14       | 2.64          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 2        | 2.64          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 10       | 2.64          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 12       | 2.64          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 13       | 2.64          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 13       | 2.64          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 11       | 2.64          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 12       | 2.64          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG2  | 6        | 2.63          |
| (1,998)  | 1:A:3:PRO:HD3  | 1:A:6:GLN:HG3  | 6        | 2.63          |
| (1,899)  | 1:A:3:PRO:HG2  | 1:A:11:TRP:HE3 | 9        | 2.63          |
| (1,899)  | 1:A:3:PRO:HG3  | 1:A:11:TRP:HE3 | 9        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 7        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 7        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 7        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 7        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 8        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 8        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 8        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 8        | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 16       | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 16       | 2.63          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 16       | 2.63          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 16       | 2.63          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 18       | 2.63          |
| (1,4870) | 1:A:31:LYS:HG2 | 1:A:33:CYS:H   | 20       | 2.63          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 3        | 2.63          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 16       | 2.63          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 17       | 2.63          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 14       | 2.63          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 14       | 2.63          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB2 | 12       | 2.63          |
| (1,4843) | 1:A:30:PRO:HD3 | 1:A:32:TYR:HB3 | 12       | 2.63          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 2        | 2.63          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 2        | 2.63          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 10       | 2.63          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 10       | 2.63          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1  | 19       | 2.63          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2  | 19       | 2.63          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD1  | 18       | 2.63          |
| (1,4379) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HD2  | 18       | 2.63          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2  | 10       | 2.63          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3  | 10       | 2.63          |
| (1,4053) | 1:A:21:SER:HB3  | 1:A:22:GLN:HB3  | 19       | 2.63          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 12       | 2.63          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 14       | 2.63          |
| (1,3834) | 1:A:19:CYS:H    | 1:A:29:GLY:H    | 11       | 2.63          |
| (1,3834) | 1:A:19:CYS:H    | 1:A:29:GLY:H    | 17       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD1  | 14       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD11 | 1:A:32:TYR:HD2  | 14       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD1  | 14       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD12 | 1:A:32:TYR:HD2  | 14       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD1  | 14       | 2.63          |
| (1,3789) | 1:A:18:LEU:HD13 | 1:A:32:TYR:HD2  | 14       | 2.63          |
| (1,3744) | 1:A:18:LEU:HG   | 1:A:28:SER:H    | 15       | 2.63          |
| (1,3693) | 1:A:18:LEU:HB2  | 1:A:28:SER:HB3  | 20       | 2.63          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD11 | 2        | 2.63          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD12 | 2        | 2.63          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD13 | 2        | 2.63          |
| (1,3419) | 1:A:15:ARG:HE   | 1:A:16:GLY:H    | 18       | 2.63          |
| (1,3357) | 1:A:15:ARG:HG2  | 1:A:16:GLY:HA2  | 14       | 2.63          |
| (1,3357) | 1:A:15:ARG:HG3  | 1:A:16:GLY:HA2  | 14       | 2.63          |
| (1,3227) | 1:A:14:CYS:HB3  | 1:A:17:GLY:H    | 4        | 2.63          |
| (1,3174) | 1:A:14:CYS:H    | 1:A:19:CYS:H    | 17       | 2.63          |
| (1,2196) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HE1  | 20       | 2.63          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD11 | 5        | 2.63          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD12 | 5        | 2.63          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD13 | 5        | 2.63          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD11 | 5        | 2.63          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD12 | 5        | 2.63          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD13 | 5        | 2.63          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2  | 3        | 2.63          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3  | 3        | 2.63          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1  | 4        | 2.63          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2  | 4        | 2.63          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 6        | 2.63          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 1        | 2.63          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 8        | 2.63          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 16       | 2.63          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 20       | 2.63          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 9        | 2.63          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 11       | 2.63          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 15       | 2.63          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 19       | 2.62          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 20       | 2.62          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 2        | 2.62          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 15       | 2.62          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 15       | 2.62          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 20       | 2.62          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 10       | 2.62          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 10       | 2.62          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 12       | 2.62          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 12       | 2.62          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA  | 5        | 2.62          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA  | 5        | 2.62          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD1 | 3        | 2.62          |
| (1,4166) | 1:A:22:GLN:HG2 | 1:A:25:TYR:HD2 | 3        | 2.62          |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3 | 13       | 2.62          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H   | 17       | 2.62          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 7        | 2.62          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 1        | 2.62          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 12       | 2.62          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 10       | 2.62          |
| (1,3651) | 1:A:18:LEU:H   | 1:A:27:GLY:H   | 14       | 2.62          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA  | 14       | 2.62          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 2        | 2.62          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 9        | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 7        | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 8        | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 12       | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 14       | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 18       | 2.62          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 19       | 2.62          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 10       | 2.62          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 3        | 2.62          |
| (1,1625) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ3 | 14       | 2.62          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 7        | 2.62          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H   | 15       | 2.62          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG2  | 5        | 2.61          |
| (1,998)  | 1:A:3:PRO:HD3   | 1:A:6:GLN:HG3  | 5        | 2.61          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB2  | 18       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB2  | 18       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB3  | 18       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB3  | 18       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB2  | 19       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB2  | 19       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB3  | 19       | 2.61          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB3  | 19       | 2.61          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2  | 14       | 2.61          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3  | 14       | 2.61          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG2  | 4        | 2.61          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG2  | 4        | 2.61          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3  | 4        | 2.61          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3  | 4        | 2.61          |
| (1,512)  | 1:A:1:SER:HA    | 1:A:11:TRP:HZ3 | 8        | 2.61          |
| (1,4901) | 1:A:31:LYS:HD2  | 1:A:35:HIS:H   | 16       | 2.61          |
| (1,4901) | 1:A:31:LYS:HD3  | 1:A:35:HIS:H   | 16       | 2.61          |
| (1,4887) | 1:A:31:LYS:HG3  | 1:A:34:ALA:H   | 3        | 2.61          |
| (1,4887) | 1:A:31:LYS:HG3  | 1:A:34:ALA:H   | 17       | 2.61          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE1 | 18       | 2.61          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE2 | 18       | 2.61          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB2 | 6        | 2.61          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3 | 6        | 2.61          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2 | 8        | 2.61          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3 | 8        | 2.61          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3 | 13       | 2.61          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG2 | 5        | 2.61          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG3 | 5        | 2.61          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA  | 13       | 2.61          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA  | 13       | 2.61          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA  | 18       | 2.61          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA  | 18       | 2.61          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA  | 20       | 2.61          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA  | 20       | 2.61          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1 | 17       | 2.61          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2 | 17       | 2.61          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 15       | 2.61          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 15       | 2.61          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 15       | 2.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 17       | 2.61          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 17       | 2.61          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 8        | 2.61          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 12       | 2.61          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 20       | 2.61          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 3        | 2.61          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 16       | 2.61          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 14       | 2.61          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 14       | 2.61          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 14       | 2.61          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 14       | 2.61          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 2        | 2.61          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 18       | 2.61          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 19       | 2.61          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 17       | 2.6           |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 16       | 2.6           |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 18       | 2.6           |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H   | 18       | 2.6           |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 19       | 2.6           |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H   | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB2 | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB2 | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB2 | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HB3 | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HB3 | 19       | 2.6           |
| (1,4913) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HB3 | 19       | 2.6           |
| (1,4899) | 1:A:31:LYS:HD2 | 1:A:34:ALA:H   | 16       | 2.6           |
| (1,4899) | 1:A:31:LYS:HD3 | 1:A:34:ALA:H   | 16       | 2.6           |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H   | 7        | 2.6           |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 2        | 2.6           |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 2        | 2.6           |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 4        | 2.6           |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 4        | 2.6           |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 5        | 2.6           |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 12       | 2.6           |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 12       | 2.6           |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 12       | 2.6           |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 19       | 2.6           |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA  | 17       | 2.6           |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA  | 17       | 2.6           |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA  | 19       | 2.6           |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA  | 19       | 2.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 1        | 2.6           |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 17       | 2.6           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1 | 5        | 2.6           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2 | 5        | 2.6           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1 | 12       | 2.6           |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2 | 12       | 2.6           |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1 | 15       | 2.6           |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2 | 15       | 2.6           |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 7        | 2.6           |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2 | 16       | 2.6           |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3 | 16       | 2.6           |
| (1,4053) | 1:A:21:SER:HB3 | 1:A:22:GLN:HB3 | 12       | 2.6           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 4        | 2.6           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 4        | 2.6           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 6        | 2.6           |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 6        | 2.6           |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H   | 19       | 2.6           |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 9        | 2.6           |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 12       | 2.6           |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3 | 14       | 2.6           |
| (1,3423) | 1:A:15:ARG:HE  | 1:A:18:LEU:HB2 | 1        | 2.6           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 1        | 2.6           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 1        | 2.6           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 1        | 2.6           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 1        | 2.6           |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 6        | 2.6           |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 6        | 2.6           |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2 | 13       | 2.6           |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 10       | 2.6           |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 4        | 2.6           |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1 | 15       | 2.6           |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 5        | 2.6           |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3 | 1        | 2.6           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2 | 2        | 2.6           |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3 | 2        | 2.6           |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 11       | 2.6           |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 11       | 2.6           |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 6        | 2.59          |
| (1,952)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HB3  | 10       | 2.59          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA  | 11       | 2.59          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 20       | 2.59          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H   | 20       | 2.59          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H   | 7        | 2.59          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 13       | 2.59          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 13       | 2.59          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 15       | 2.59          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 15       | 2.59          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 17       | 2.59          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 17       | 2.59          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 17       | 2.59          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 5        | 2.59          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 10       | 2.59          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 11       | 2.59          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD2 | 14       | 2.59          |
| (1,4431) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HD3 | 14       | 2.59          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD2 | 14       | 2.59          |
| (1,4431) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HD3 | 14       | 2.59          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD1 | 19       | 2.59          |
| (1,4379) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HD2 | 19       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 2        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 2        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 5        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 5        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 7        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 7        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 8        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 8        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 9        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 9        | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 11       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 11       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 12       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 12       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 13       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 13       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 18       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 18       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB2 | 19       | 2.59          |
| (1,4013) | 1:A:21:SER:H   | 1:A:22:GLN:HB3 | 19       | 2.59          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H   | 11       | 2.59          |
| (1,3844) | 1:A:19:CYS:H   | 1:A:32:TYR:HA  | 14       | 2.59          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 18       | 2.59          |
| (1,3693) | 1:A:18:LEU:HB2 | 1:A:28:SER:HB3 | 19       | 2.59          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 2        | 2.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 1        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 2        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 3        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 4        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 5        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 6        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 7        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 8        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 9        | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 10       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 11       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 12       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 14       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 16       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 18       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 19       | 2.59          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 20       | 2.59          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 1        | 2.59          |
| (1,2196) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HE1  | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 6        | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 10       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 11       | 2.59          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 11       | 2.59          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA   | 6        | 2.59          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 11       | 2.59          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H    | 4        | 2.59          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H    | 13       | 2.59          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 11       | 2.59          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 11       | 2.59          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB2  | 10       | 2.59          |
| (1,1437) | 1:A:5:GLY:H    | 1:A:25:TYR:HB3  | 10       | 2.59          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 11       | 2.59          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 4        | 2.58          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 4        | 2.58          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 4        | 2.58          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 4        | 2.58          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 12       | 2.58          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 12       | 2.58          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 5        | 2.58          |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 6        | 2.58          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 14       | 2.58          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 20       | 2.58          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 20       | 2.58          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 18       | 2.58          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 11       | 2.58          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 11       | 2.58          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3  | 13       | 2.58          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3  | 8        | 2.58          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3  | 14       | 2.58          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 11       | 2.58          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 11       | 2.58          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 14       | 2.58          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 14       | 2.58          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H    | 13       | 2.58          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA   | 15       | 2.58          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 12       | 2.58          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H    | 9        | 2.58          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 15       | 2.58          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 2        | 2.58          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 4        | 2.58          |
| (1,3245) | 1:A:14:CYS:HB3 | 1:A:27:GLY:HA2  | 11       | 2.58          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 18       | 2.58          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 19       | 2.58          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H    | 10       | 2.58          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 15       | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 2        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 2        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 2        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 2        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 2        | 2.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 2        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 3        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 4        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 4        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 4        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 4        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 4        | 2.58          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 4        | 2.58          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 13       | 2.57          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 13       | 2.57          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 13       | 2.57          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 13       | 2.57          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 20       | 2.57          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 2        | 2.57          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 4        | 2.57          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 8        | 2.57          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 13       | 2.57          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 18       | 2.57          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 18       | 2.57          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 19       | 2.57          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 19       | 2.57          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 15       | 2.57          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 15       | 2.57          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3  | 5        | 2.57          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3  | 12       | 2.57          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 8        | 2.57          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 8        | 2.57          |
| (1,4557) | 1:A:25:TYR:HD1 | 1:A:26:CYS:HA   | 9        | 2.57          |
| (1,4557) | 1:A:25:TYR:HD2 | 1:A:26:CYS:HA   | 9        | 2.57          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA   | 3        | 2.57          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 15       | 2.57          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 6        | 2.57          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 6        | 2.57          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H    | 17       | 2.57          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA   | 3        | 2.57          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA   | 4        | 2.57          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 4        | 2.57          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3  | 4        | 2.57          |
| (1,1743) | 1:A:6:GLN:HG3   | 1:A:11:TRP:HB3  | 15       | 2.57          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 12       | 2.57          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA3  | 12       | 2.57          |
| (1,1625) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ3  | 17       | 2.57          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 2        | 2.57          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 10       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD11 | 16       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD12 | 16       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD13 | 16       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD21 | 16       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD22 | 16       | 2.57          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD23 | 16       | 2.57          |
| (1,952)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HB3   | 5        | 2.56          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB2  | 5        | 2.56          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3  | 5        | 2.56          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1  | 16       | 2.56          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2  | 16       | 2.56          |
| (1,4827) | 1:A:30:PRO:HG2  | 1:A:35:HIS:H    | 4        | 2.56          |
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H    | 4        | 2.56          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 2        | 2.56          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 16       | 2.56          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 1        | 2.56          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 1        | 2.56          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 7        | 2.56          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 7        | 2.56          |
| (1,4557) | 1:A:25:TYR:HD1  | 1:A:26:CYS:HA   | 15       | 2.56          |
| (1,4557) | 1:A:25:TYR:HD2  | 1:A:26:CYS:HA   | 15       | 2.56          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 7        | 2.56          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 15       | 2.56          |
| (1,4327) | 1:A:22:GLN:HE22 | 1:A:32:TYR:HA   | 15       | 2.56          |
| (1,4247) | 1:A:22:GLN:HG3  | 1:A:24:GLY:H    | 17       | 2.56          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2  | 5        | 2.56          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3  | 5        | 2.56          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2  | 18       | 2.56          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3  | 18       | 2.56          |
| (1,4092) | 1:A:21:SER:HG   | 1:A:32:TYR:HA   | 5        | 2.56          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 3        | 2.56          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 6        | 2.56          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 13       | 2.56          |
| (1,3693) | 1:A:18:LEU:HB2  | 1:A:28:SER:HB3  | 16       | 2.56          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H    | 7        | 2.56          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3  | 7        | 2.56          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 3        | 2.56          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 5        | 2.56          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 6        | 2.56          |
| (1,1623) | 1:A:6:GLN:HB3   | 1:A:11:TRP:H    | 14       | 2.56          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB2  | 9        | 2.56          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB3  | 9        | 2.56          |
| (1,1479) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HB2  | 1        | 2.56          |
| (1,1479) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HB3  | 1        | 2.56          |
| (1,1439) | 1:A:5:GLY:H     | 1:A:26:CYS:H    | 17       | 2.56          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE1  | 14       | 2.56          |
| (1,1438) | 1:A:5:GLY:H     | 1:A:25:TYR:HE2  | 14       | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD11 | 8        | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD12 | 8        | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD13 | 8        | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD21 | 8        | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD22 | 8        | 2.56          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD23 | 8        | 2.56          |
| (1,1405) | 1:A:5:GLY:H     | 1:A:11:TRP:HB2  | 1        | 2.56          |
| (1,1405) | 1:A:5:GLY:H     | 1:A:11:TRP:HB3  | 1        | 2.56          |
| (1,1180) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HA    | 14       | 2.56          |
| (1,608)  | 1:A:2:GLY:H     | 1:A:11:TRP:H    | 4        | 2.55          |
| (1,4887) | 1:A:31:LYS:HG3  | 1:A:34:ALA:H    | 6        | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 5        | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 5        | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 9        | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 9        | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 18       | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 18       | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 19       | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 19       | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 20       | 2.55          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 20       | 2.55          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3  | 4        | 2.55          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3  | 11       | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 3        | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 6        | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 9        | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 10       | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 18       | 2.55          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 20       | 2.55          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2  | 16       | 2.55          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3  | 16       | 2.55          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2  | 3        | 2.55          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3  | 3        | 2.55          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE1  | 7        | 2.55          |
| (1,4136) | 1:A:22:GLN:HA   | 1:A:23:TYR:HE2  | 7        | 2.55          |
| (1,4092) | 1:A:21:SER:HG   | 1:A:32:TYR:HA   | 14       | 2.55          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 5        | 2.55          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 11       | 2.55          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 13       | 2.55          |
| (1,3419) | 1:A:15:ARG:HE   | 1:A:16:GLY:H    | 1        | 2.55          |
| (1,3395) | 1:A:15:ARG:HD2  | 1:A:18:LEU:HB3  | 13       | 2.55          |
| (1,3395) | 1:A:15:ARG:HD3  | 1:A:18:LEU:HB3  | 13       | 2.55          |
| (1,3357) | 1:A:15:ARG:HG2  | 1:A:16:GLY:HA2  | 17       | 2.55          |
| (1,3357) | 1:A:15:ARG:HG3  | 1:A:16:GLY:HA2  | 17       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD11 | 13       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD12 | 13       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HD13 | 13       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD11 | 13       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD12 | 13       | 2.55          |
| (1,1993) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HD13 | 13       | 2.55          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2   | 3        | 2.54          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3   | 3        | 2.54          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2   | 4        | 2.54          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3   | 4        | 2.54          |
| (1,4898) | 1:A:31:LYS:HB3  | 1:A:34:ALA:H    | 13       | 2.54          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB2  | 3        | 2.54          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3  | 3        | 2.54          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 1        | 2.54          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 1        | 2.54          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB2  | 11       | 2.54          |
| (1,4855) | 1:A:31:LYS:HA   | 1:A:33:CYS:HB3  | 11       | 2.54          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3  | 18       | 2.54          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG2  | 7        | 2.54          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG3  | 7        | 2.54          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG2  | 9        | 2.54          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG3  | 9        | 2.54          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 9        | 2.54          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 4        | 2.54          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 7        | 2.54          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 15       | 2.54          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 19       | 2.54          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 9        | 2.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 16       | 2.54          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 16       | 2.54          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 16       | 2.54          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 16       | 2.54          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 1        | 2.54          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 14       | 2.54          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 18       | 2.54          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 19       | 2.54          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 20       | 2.54          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 1        | 2.54          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 5        | 2.54          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 6        | 2.54          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 6        | 2.54          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 15       | 2.54          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 5        | 2.54          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 5        | 2.54          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H    | 6        | 2.54          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H    | 13       | 2.54          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H    | 13       | 2.54          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 19       | 2.54          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 19       | 2.54          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 1        | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 18       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 19       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 19       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 19       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 19       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 19       | 2.54          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 19       | 2.54          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 19       | 2.54          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 19       | 2.54          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 20       | 2.54          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 20       | 2.54          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2   | 14       | 2.53          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2   | 14       | 2.53          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3   | 14       | 2.53          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3   | 14       | 2.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 4        | 2.53          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 7        | 2.53          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 18       | 2.53          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 18       | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 3        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 3        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 6        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 6        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 7        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 7        | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 16       | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 16       | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB2 | 17       | 2.53          |
| (1,4855) | 1:A:31:LYS:HA  | 1:A:33:CYS:HB3 | 17       | 2.53          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 4        | 2.53          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 11       | 2.53          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3 | 13       | 2.53          |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3 | 17       | 2.53          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 18       | 2.53          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 19       | 2.53          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 17       | 2.53          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2 | 4        | 2.53          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2 | 4        | 2.53          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3 | 4        | 2.53          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3 | 4        | 2.53          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 20       | 2.53          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 15       | 2.53          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 9        | 2.53          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 11       | 2.53          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 16       | 2.53          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA  | 2        | 2.53          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA  | 6        | 2.53          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H   | 5        | 2.53          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 3        | 2.53          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 15       | 2.53          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 15       | 2.53          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 19       | 2.53          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 19       | 2.53          |
| (1,3228) | 1:A:14:CYS:HB3 | 1:A:17:GLY:HA3 | 17       | 2.53          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 5        | 2.53          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 8        | 2.53          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 8        | 2.53          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 11       | 2.53          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 11       | 2.53          |
| (1,1589) | 1:A:6:GLN:HB2  | 1:A:11:TRP:H   | 17       | 2.53          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 9        | 2.53          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3 | 19       | 2.52          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 2        | 2.52          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 4        | 2.52          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 8        | 2.52          |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H   | 16       | 2.52          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 1        | 2.52          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 1        | 2.52          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 5        | 2.52          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 8        | 2.52          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 12       | 2.52          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 12       | 2.52          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 12       | 2.52          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 12       | 2.52          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 12       | 2.52          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 12       | 2.52          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 15       | 2.52          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 16       | 2.52          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H   | 20       | 2.52          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 13       | 2.52          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 14       | 2.52          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 16       | 2.52          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 16       | 2.52          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA  | 1        | 2.52          |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA  | 10       | 2.52          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 17       | 2.52          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 17       | 2.52          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 1        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 2        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 2        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 3        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 3        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 4        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 4        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 5        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 5        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 6        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 6        | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 10       | 2.52          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 10       | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB2 | 17       | 2.52          |
| (1,3085) | 1:A:13:GLY:H   | 1:A:14:CYS:HB3 | 17       | 2.52          |
| (1,2775) | 1:A:11:TRP:HE3 | 1:A:12:GLY:H   | 13       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 2        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 3        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 4        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 5        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 6        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 7        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 8        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 9        | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 10       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 11       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 12       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 14       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 16       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 18       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 19       | 2.52          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2 | 20       | 2.52          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 1        | 2.52          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 1        | 2.52          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H   | 11       | 2.52          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H   | 11       | 2.52          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 18       | 2.52          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 18       | 2.52          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 17       | 2.52          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 13       | 2.52          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 2        | 2.52          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 5        | 2.52          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 6        | 2.52          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 15       | 2.52          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 15       | 2.52          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 12       | 2.52          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2 | 8        | 2.52          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3 | 8        | 2.52          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2 | 18       | 2.52          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3 | 18       | 2.52          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 1        | 2.51          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 9        | 2.51          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 14       | 2.51          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 15       | 2.51          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,995)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HB2   | 20       | 2.51          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB2   | 3        | 2.51          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB2   | 3        | 2.51          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB3   | 3        | 2.51          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB3   | 3        | 2.51          |
| (1,887)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:H     | 1        | 2.51          |
| (1,887)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:H     | 1        | 2.51          |
| (1,680)  | 1:A:2:GLY:HA2   | 1:A:6:GLN:HG2   | 17       | 2.51          |
| (1,613)  | 1:A:2:GLY:H     | 1:A:12:GLY:H    | 2        | 2.51          |
| (1,4902) | 1:A:31:LYS:HB3  | 1:A:35:HIS:HE1  | 20       | 2.51          |
| (1,4839) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB3  | 2        | 2.51          |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3  | 8        | 2.51          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 7        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1  | 3        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2  | 3        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1  | 4        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2  | 4        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1  | 6        | 2.51          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2  | 6        | 2.51          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 3        | 2.51          |
| (1,4249) | 1:A:22:GLN:HG3  | 1:A:25:TYR:H    | 16       | 2.51          |
| (1,4092) | 1:A:21:SER:HG   | 1:A:32:TYR:HA   | 8        | 2.51          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 3        | 2.51          |
| (1,3985) | 1:A:20:CYS:HB3  | 1:A:22:GLN:HA   | 4        | 2.51          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 8        | 2.51          |
| (1,3693) | 1:A:18:LEU:HB2  | 1:A:28:SER:HB3  | 14       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 12       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 12       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 12       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 12       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 12       | 2.51          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 12       | 2.51          |
| (1,2524) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HZ2  | 1        | 2.51          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H    | 3        | 2.51          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H    | 3        | 2.51          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H    | 11       | 2.51          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H    | 11       | 2.51          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2  | 7        | 2.51          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3  | 7        | 2.51          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2  | 16       | 2.51          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3  | 16       | 2.51          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 1        | 2.51          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3  | 1        | 2.51          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2  | 9        | 2.51          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3  | 9        | 2.51          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2  | 20       | 2.51          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3  | 20       | 2.51          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 8        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD11 | 9        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD12 | 9        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD13 | 9        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD21 | 9        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD22 | 9        | 2.51          |
| (1,1420) | 1:A:5:GLY:H    | 1:A:18:LEU:HD23 | 9        | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 7        | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 7        | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 12       | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 12       | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 15       | 2.51          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 15       | 2.51          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2   | 14       | 2.51          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3   | 14       | 2.51          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 17       | 2.5           |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 17       | 2.5           |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2   | 20       | 2.5           |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3   | 20       | 2.5           |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H    | 16       | 2.5           |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H    | 16       | 2.5           |
| (1,4936) | 1:A:33:CYS:H   | 1:A:35:HIS:HA   | 1        | 2.5           |
| (1,4898) | 1:A:31:LYS:HB3 | 1:A:34:ALA:H    | 7        | 2.5           |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 6        | 2.5           |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 6        | 2.5           |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3  | 16       | 2.5           |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 13       | 2.5           |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 2        | 2.5           |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 2        | 2.5           |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3  | 2        | 2.5           |
| (1,4675) | 1:A:27:GLY:H   | 1:A:28:SER:HB3  | 11       | 2.5           |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H    | 7        | 2.5           |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H    | 8        | 2.5           |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 15       | 2.5           |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2  | 18       | 2.5           |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3  | 18       | 2.5           |
| (1,3985) | 1:A:20:CYS:HB3 | 1:A:22:GLN:HA   | 17       | 2.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H    | 5        | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 10       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 10       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 10       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 13       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 13       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 13       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 15       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 15       | 2.5           |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 15       | 2.5           |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 5        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 8        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 8        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 8        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 8        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 8        | 2.5           |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 8        | 2.5           |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 13       | 2.5           |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 15       | 2.5           |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 1        | 2.5           |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 1        | 2.5           |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2  | 15       | 2.5           |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 4        | 2.5           |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 4        | 2.5           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 8        | 2.5           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 8        | 2.5           |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3  | 10       | 2.5           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 11       | 2.5           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 11       | 2.5           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2  | 16       | 2.5           |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3  | 16       | 2.5           |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2   | 4        | 2.49          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 11       | 2.49          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 11       | 2.49          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 15       | 2.49          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 15       | 2.49          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H    | 3        | 2.49          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H    | 6        | 2.49          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H    | 10       | 2.49          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2   | 6        | 2.49          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3   | 6        | 2.49          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 9        | 2.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 9        | 2.49          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 9        | 2.49          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 9        | 2.49          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE21  | 17       | 2.49          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE21  | 17       | 2.49          |
| (1,541)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HE22  | 17       | 2.49          |
| (1,541)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HE22  | 17       | 2.49          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 20       | 2.49          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 15       | 2.49          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 15       | 2.49          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H    | 20       | 2.49          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 10       | 2.49          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 10       | 2.49          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2  | 12       | 2.49          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2  | 12       | 2.49          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 19       | 2.49          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 19       | 2.49          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 19       | 2.49          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 19       | 2.49          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3  | 18       | 2.49          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 3        | 2.49          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H    | 9        | 2.49          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 20       | 2.49          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 20       | 2.49          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 20       | 2.49          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 20       | 2.49          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 13       | 2.49          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H    | 6        | 2.49          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 11       | 2.49          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H    | 1        | 2.49          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 2        | 2.49          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 2        | 2.49          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 10       | 2.49          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 10       | 2.49          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 1        | 2.49          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 1        | 2.49          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 1        | 2.49          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 1        | 2.49          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 1        | 2.49          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 1        | 2.49          |
| (1,1984) | 1:A:7:CYS:HB2  | 1:A:15:ARG:H    | 1        | 2.49          |
| (1,1984) | 1:A:7:CYS:HB3  | 1:A:15:ARG:H    | 1        | 2.49          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD11 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD12 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD13 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD21 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD22 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD23 | 7        | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD11 | 20       | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD12 | 20       | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD13 | 20       | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD21 | 20       | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD22 | 20       | 2.49          |
| (1,1420) | 1:A:5:GLY:H     | 1:A:18:LEU:HD23 | 20       | 2.49          |
| (1,995)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HB2   | 3        | 2.48          |
| (1,887)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:H     | 13       | 2.48          |
| (1,887)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:H     | 13       | 2.48          |
| (1,887)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:H     | 20       | 2.48          |
| (1,887)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:H     | 20       | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2   | 8        | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3   | 8        | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2   | 11       | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3   | 11       | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2   | 15       | 2.48          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3   | 15       | 2.48          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG2   | 11       | 2.48          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG2   | 11       | 2.48          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3   | 11       | 2.48          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3   | 11       | 2.48          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H    | 10       | 2.48          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H    | 10       | 2.48          |
| (1,4898) | 1:A:31:LYS:HB3  | 1:A:34:ALA:H    | 14       | 2.48          |
| (1,4894) | 1:A:31:LYS:HB3  | 1:A:33:CYS:H    | 6        | 2.48          |
| (1,4861) | 1:A:31:LYS:HB2  | 1:A:34:ALA:H    | 10       | 2.48          |
| (1,4824) | 1:A:30:PRO:HG2  | 1:A:33:CYS:HB2  | 14       | 2.48          |
| (1,4824) | 1:A:30:PRO:HG3  | 1:A:33:CYS:HB2  | 14       | 2.48          |
| (1,4797) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HG3  | 2        | 2.48          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 2        | 2.48          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 8        | 2.48          |
| (1,4675) | 1:A:27:GLY:H    | 1:A:28:SER:HB3  | 1        | 2.48          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3  | 10       | 2.48          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 17       | 2.48          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 17       | 2.48          |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA   | 3        | 2.48          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 1        | 2.48          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 1        | 2.48          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 17       | 2.48          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 4        | 2.48          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 4        | 2.48          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 4        | 2.48          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 2        | 2.48          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 4        | 2.48          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 15       | 2.48          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 15       | 2.48          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 15       | 2.48          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 13       | 2.48          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 6        | 2.48          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 6        | 2.48          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 15       | 2.48          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 15       | 2.48          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 12       | 2.48          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 12       | 2.48          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 20       | 2.48          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 20       | 2.48          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3  | 13       | 2.48          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 8        | 2.48          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 8        | 2.48          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 12       | 2.48          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 12       | 2.48          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 13       | 2.48          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H    | 8        | 2.48          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 9        | 2.47          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 9        | 2.47          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 12       | 2.47          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 12       | 2.47          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H    | 3        | 2.47          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H    | 5        | 2.47          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2   | 1        | 2.47          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3   | 1        | 2.47          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 1        | 2.47          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2  | 7        | 2.47          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3  | 7        | 2.47          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H    | 14       | 2.47          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1  | 14       | 2.47          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2  | 14       | 2.47          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3  | 14       | 2.47          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2  | 7        | 2.47          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3  | 7        | 2.47          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG2  | 16       | 2.47          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG3  | 16       | 2.47          |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3  | 5        | 2.47          |
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA   | 6        | 2.47          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE1  | 10       | 2.47          |
| (1,4463) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HE2  | 10       | 2.47          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2  | 15       | 2.47          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3  | 15       | 2.47          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD1  | 10       | 2.47          |
| (1,4166) | 1:A:22:GLN:HG2  | 1:A:25:TYR:HD2  | 10       | 2.47          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA   | 2        | 2.47          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2  | 7        | 2.47          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3  | 7        | 2.47          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 10       | 2.47          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 18       | 2.47          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 19       | 2.47          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 20       | 2.47          |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3  | 1        | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 14       | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 14       | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 14       | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 14       | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 14       | 2.47          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 14       | 2.47          |
| (1,3137) | 1:A:13:GLY:HA2  | 1:A:20:CYS:H    | 13       | 2.47          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2  | 7        | 2.47          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3  | 7        | 2.47          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 13       | 2.47          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H    | 13       | 2.47          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H    | 13       | 2.47          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 15       | 2.47          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA3  | 15       | 2.47          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB2  | 14       | 2.47          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB3  | 14       | 2.47          |
| (1,1436) | 1:A:5:GLY:H     | 1:A:25:TYR:HA   | 15       | 2.47          |
| (1,1436) | 1:A:5:GLY:H     | 1:A:25:TYR:HA   | 20       | 2.47          |
| (1,1405) | 1:A:5:GLY:H     | 1:A:11:TRP:HB2  | 9        | 2.47          |
| (1,1405) | 1:A:5:GLY:H     | 1:A:11:TRP:HB3  | 9        | 2.47          |
| (1,887)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:H     | 7        | 2.46          |
| (1,887)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:H     | 7        | 2.46          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 8        | 2.46          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 8        | 2.46          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H     | 14       | 2.46          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H     | 14       | 2.46          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 9        | 2.46          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 9        | 2.46          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2   | 19       | 2.46          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3   | 19       | 2.46          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 15       | 2.46          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 15       | 2.46          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 15       | 2.46          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 15       | 2.46          |
| (1,512)  | 1:A:1:SER:HA   | 1:A:11:TRP:HZ3  | 18       | 2.46          |
| (1,4887) | 1:A:31:LYS:HG3 | 1:A:34:ALA:H    | 15       | 2.46          |
| (1,4861) | 1:A:31:LYS:HB2 | 1:A:34:ALA:H    | 12       | 2.46          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3  | 7        | 2.46          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2  | 8        | 2.46          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2  | 8        | 2.46          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2  | 16       | 2.46          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H    | 3        | 2.46          |
| (1,4543) | 1:A:25:TYR:HB3 | 1:A:27:GLY:H    | 4        | 2.46          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE1  | 2        | 2.46          |
| (1,4463) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HE2  | 2        | 2.46          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 2        | 2.46          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 16       | 2.46          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 16       | 2.46          |
| (1,3884) | 1:A:19:CYS:HB2 | 1:A:35:HIS:H    | 20       | 2.46          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 14       | 2.46          |
| (1,3846) | 1:A:19:CYS:H   | 1:A:33:CYS:H    | 16       | 2.46          |
| (1,3549) | 1:A:17:GLY:H   | 1:A:18:LEU:HB3  | 13       | 2.46          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 10       | 2.46          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 10       | 2.46          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 1        | 2.46          |
| (1,3271) | 1:A:15:ARG:H   | 1:A:26:CYS:HA   | 11       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 16       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 16       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 16       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 16       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 16       | 2.46          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 16       | 2.46          |
| (1,3145) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HB3  | 16       | 2.46          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 17       | 2.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 17       | 2.46          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 5        | 2.46          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 5        | 2.46          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 12       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 12       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 12       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 12       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 16       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 16       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 16       | 2.46          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 16       | 2.46          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 14       | 2.46          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 14       | 2.46          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 18       | 2.46          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 18       | 2.46          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 19       | 2.46          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 19       | 2.46          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB2 | 13       | 2.46          |
| (1,1405) | 1:A:5:GLY:H    | 1:A:11:TRP:HB3 | 13       | 2.46          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 16       | 2.45          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 16       | 2.45          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 18       | 2.45          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 18       | 2.45          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 19       | 2.45          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 19       | 2.45          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 2        | 2.45          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 5        | 2.45          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 5        | 2.45          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 10       | 2.45          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 10       | 2.45          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 9        | 2.45          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 9        | 2.45          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 9        | 2.45          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 7        | 2.45          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 7        | 2.45          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 7        | 2.45          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 14       | 2.45          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 14       | 2.45          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 4        | 2.45          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 5        | 2.45          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 18       | 2.45          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 18       | 2.45          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG2  | 19       | 2.45          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG3  | 19       | 2.45          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG2  | 20       | 2.45          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG3  | 20       | 2.45          |
| (1,4543) | 1:A:25:TYR:HB3  | 1:A:27:GLY:H    | 6        | 2.45          |
| (1,4543) | 1:A:25:TYR:HB3  | 1:A:27:GLY:H    | 8        | 2.45          |
| (1,4543) | 1:A:25:TYR:HB3  | 1:A:27:GLY:H    | 14       | 2.45          |
| (1,4387) | 1:A:23:TYR:HB3  | 1:A:24:GLY:HA2  | 10       | 2.45          |
| (1,4387) | 1:A:23:TYR:HB3  | 1:A:24:GLY:HA2  | 16       | 2.45          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 17       | 2.45          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 17       | 2.45          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2  | 11       | 2.45          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3  | 11       | 2.45          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 4        | 2.45          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 4        | 2.45          |
| (1,4047) | 1:A:21:SER:HB2  | 1:A:22:GLN:HE22 | 15       | 2.45          |
| (1,3846) | 1:A:19:CYS:H    | 1:A:33:CYS:H    | 12       | 2.45          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB2  | 1        | 2.45          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB3  | 1        | 2.45          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H    | 18       | 2.45          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H    | 18       | 2.45          |
| (1,3271) | 1:A:15:ARG:H    | 1:A:26:CYS:HA   | 13       | 2.45          |
| (1,2524) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HZ2  | 17       | 2.45          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA   | 7        | 2.45          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA   | 12       | 2.45          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA   | 16       | 2.45          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA   | 18       | 2.45          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA   | 19       | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 7        | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA3  | 7        | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 13       | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA3  | 13       | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA2  | 16       | 2.45          |
| (1,1720) | 1:A:6:GLN:HG2   | 1:A:24:GLY:HA3  | 16       | 2.45          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3  | 3        | 2.45          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB2   | 2        | 2.44          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB2   | 2        | 2.44          |
| (1,889)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HB3   | 2        | 2.44          |
| (1,889)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HB3   | 2        | 2.44          |
| (1,613)  | 1:A:2:GLY:H     | 1:A:12:GLY:H    | 6        | 2.44          |
| (1,4889) | 1:A:31:LYS:HG3  | 1:A:35:HIS:H    | 7        | 2.44          |
| (1,4797) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HG3  | 4        | 2.44          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2  | 17       | 2.44          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3  | 17       | 2.44          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3  | 13       | 2.44          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3  | 16       | 2.44          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2  | 11       | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2  | 2        | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 2        | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2  | 4        | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 4        | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2  | 16       | 2.44          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 16       | 2.44          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 1        | 2.44          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H    | 5        | 2.44          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 5        | 2.44          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H    | 6        | 2.44          |
| (1,4246) | 1:A:22:GLN:HG3 | 1:A:23:TYR:HB3  | 15       | 2.44          |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 9        | 2.44          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 11       | 2.44          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE1  | 20       | 2.44          |
| (1,4136) | 1:A:22:GLN:HA  | 1:A:23:TYR:HE2  | 20       | 2.44          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 4        | 2.44          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 2        | 2.44          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 2        | 2.44          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 2        | 2.44          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2  | 12       | 2.44          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3  | 12       | 2.44          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H    | 20       | 2.44          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 13       | 2.44          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 13       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 18       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 18       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 18       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 18       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 18       | 2.44          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 18       | 2.44          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3  | 11       | 2.44          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H    | 11       | 2.44          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2  | 19       | 2.44          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3  | 19       | 2.44          |
| (1,2524) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HZ2  | 13       | 2.44          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 2        | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2  | 8        | 2.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 8        | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 8        | 2.44          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 8        | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 18       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 18       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 18       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 18       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 19       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 19       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 19       | 2.44          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 19       | 2.44          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 8        | 2.44          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 9        | 2.44          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 20       | 2.44          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 20       | 2.44          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 20       | 2.44          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 14       | 2.44          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 18       | 2.44          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 4        | 2.43          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 4        | 2.43          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 4        | 2.43          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 1        | 2.43          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 5        | 2.43          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 6        | 2.43          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 6        | 2.43          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 8        | 2.43          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 8        | 2.43          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 2        | 2.43          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 2        | 2.43          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 4        | 2.43          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 4        | 2.43          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1 | 16       | 2.43          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2 | 16       | 2.43          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3 | 16       | 2.43          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 20       | 2.43          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 20       | 2.43          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 9        | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 8        | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 8        | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 10       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 10       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 13       | 2.43          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 13       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2  | 14       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 14       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2  | 15       | 2.43          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3  | 15       | 2.43          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 11       | 2.43          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H    | 15       | 2.43          |
| (1,4064) | 1:A:21:SER:HB3 | 1:A:31:LYS:HD2  | 8        | 2.43          |
| (1,4064) | 1:A:21:SER:HB3 | 1:A:31:LYS:HD3  | 8        | 2.43          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 14       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 20       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 20       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 20       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 20       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 20       | 2.43          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 20       | 2.43          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 3        | 2.43          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 4        | 2.43          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 5        | 2.43          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 6        | 2.43          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 10       | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 2        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 2        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 3        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 3        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 4        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 4        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 5        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 5        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 6        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 6        | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 10       | 2.43          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 10       | 2.43          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2  | 20       | 2.43          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2  | 20       | 2.43          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3  | 20       | 2.43          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3  | 20       | 2.43          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 11       | 2.43          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 11       | 2.43          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3  | 4        | 2.43          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 12       | 2.43          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 12       | 2.43          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 9        | 2.43          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 11       | 2.43          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 16       | 2.43          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 16       | 2.43          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 4        | 2.42          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 20       | 2.42          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 20       | 2.42          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 10       | 2.42          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 20       | 2.42          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 7        | 2.42          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 7        | 2.42          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 12       | 2.42          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 12       | 2.42          |
| (1,546)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HD1 | 9        | 2.42          |
| (1,546)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HD1 | 9        | 2.42          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 9        | 2.42          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 9        | 2.42          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 9        | 2.42          |
| (1,4895) | 1:A:31:LYS:HD2 | 1:A:33:CYS:H   | 15       | 2.42          |
| (1,4895) | 1:A:31:LYS:HD3 | 1:A:33:CYS:H   | 15       | 2.42          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 9        | 2.42          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 9        | 2.42          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 11       | 2.42          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 11       | 2.42          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 13       | 2.42          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 13       | 2.42          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 15       | 2.42          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 15       | 2.42          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 7        | 2.42          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 18       | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 1        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 1        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 7        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 7        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 9        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 9        | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 11       | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 11       | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 12       | 2.42          |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 12       | 2.42          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 2        | 2.42          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 19       | 2.42          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2  | 3        | 2.42          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 3        | 2.42          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2  | 6        | 2.42          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 6        | 2.42          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2  | 17       | 2.42          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 17       | 2.42          |
| (1,4092) | 1:A:21:SER:HG  | 1:A:32:TYR:HA   | 2        | 2.42          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1  | 12       | 2.42          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2  | 12       | 2.42          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3  | 12       | 2.42          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2  | 8        | 2.42          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3  | 8        | 2.42          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2  | 9        | 2.42          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3  | 9        | 2.42          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 11       | 2.42          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 11       | 2.42          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA2  | 4        | 2.42          |
| (1,3422) | 1:A:15:ARG:HE  | 1:A:17:GLY:HA3  | 4        | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 19       | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 19       | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 19       | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 19       | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 19       | 2.42          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 19       | 2.42          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 9        | 2.42          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 14       | 2.42          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 15       | 2.42          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 19       | 2.42          |
| (1,2461) | 1:A:10:GLY:H   | 1:A:11:TRP:HE1  | 20       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 1        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 1        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 7        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 7        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 8        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 8        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 9        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 9        | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 11       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 11       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 12       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3  | 12       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2  | 13       | 2.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 13       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 14       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 14       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 15       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 15       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 16       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 16       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 18       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 18       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 19       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 19       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB2 | 20       | 2.42          |
| (1,2139) | 1:A:9:PRO:HA   | 1:A:11:TRP:HB3 | 20       | 2.42          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 7        | 2.42          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 7        | 2.42          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 7        | 2.42          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 7        | 2.42          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 2        | 2.42          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 5        | 2.42          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 10       | 2.42          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 2        | 2.42          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 5        | 2.42          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 10       | 2.42          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 15       | 2.42          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 19       | 2.42          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 3        | 2.42          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 3        | 2.42          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 3        | 2.41          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 3        | 2.41          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 10       | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 2        | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 2        | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 13       | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 13       | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 18       | 2.41          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 18       | 2.41          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 8        | 2.41          |
| (1,4912) | 1:A:31:LYS:HZ1 | 1:A:34:ALA:HA  | 14       | 2.41          |
| (1,4912) | 1:A:31:LYS:HZ2 | 1:A:34:ALA:HA  | 14       | 2.41          |
| (1,4912) | 1:A:31:LYS:HZ3 | 1:A:34:ALA:HA  | 14       | 2.41          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 19       | 2.41          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H   | 12       | 2.41          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4827) | 1:A:30:PRO:HG3  | 1:A:35:HIS:H    | 12       | 2.41          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG2  | 17       | 2.41          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG3  | 17       | 2.41          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 18       | 2.41          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H    | 20       | 2.41          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 11       | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB2  | 2        | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB3  | 2        | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB2  | 4        | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB3  | 4        | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB2  | 10       | 2.41          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB3  | 10       | 2.41          |
| (1,3744) | 1:A:18:LEU:HG   | 1:A:28:SER:H    | 17       | 2.41          |
| (1,3549) | 1:A:17:GLY:H    | 1:A:18:LEU:HB3  | 15       | 2.41          |
| (1,3420) | 1:A:15:ARG:HE   | 1:A:16:GLY:HA3  | 2        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 7        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 9        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 9        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 9        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 9        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 9        | 2.41          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 9        | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 1        | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 7        | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 8        | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 11       | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 12       | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 16       | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 17       | 2.41          |
| (1,2461) | 1:A:10:GLY:H    | 1:A:11:TRP:HE1  | 18       | 2.41          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB2  | 9        | 2.41          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB2  | 9        | 2.41          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB3  | 9        | 2.41          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB3  | 9        | 2.41          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2  | 9        | 2.41          |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3  | 9        | 2.41          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB2  | 1        | 2.41          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 1        | 2.41          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 7        | 2.41          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 7        | 2.41          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 1        | 2.41          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 8        | 2.41          |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 12       | 2.41          |
| (1,1223) | 1:A:4:ASN:HB3  | 1:A:26:CYS:H   | 18       | 2.41          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 3        | 2.41          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 3        | 2.4           |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 6        | 2.4           |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 6        | 2.4           |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 6        | 2.4           |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 6        | 2.4           |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 10       | 2.4           |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 10       | 2.4           |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 10       | 2.4           |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 10       | 2.4           |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 1        | 2.4           |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 1        | 2.4           |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 15       | 2.4           |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 15       | 2.4           |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 14       | 2.4           |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 16       | 2.4           |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 16       | 2.4           |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 16       | 2.4           |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H   | 16       | 2.4           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 5        | 2.4           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 5        | 2.4           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 5        | 2.4           |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 1        | 2.4           |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 1        | 2.4           |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 9        | 2.4           |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 17       | 2.4           |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 17       | 2.4           |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 17       | 2.4           |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 4        | 2.4           |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 11       | 2.4           |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 13       | 2.4           |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG2 | 5        | 2.4           |
| (1,4760) | 1:A:29:GLY:H   | 1:A:30:PRO:HG3 | 5        | 2.4           |
| (1,4244) | 1:A:22:GLN:HB3 | 1:A:35:HIS:HB3 | 19       | 2.4           |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1 | 3        | 2.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2 | 3        | 2.4           |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 5        | 2.4           |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 5        | 2.4           |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 12       | 2.4           |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 12       | 2.4           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 14       | 2.4           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 14       | 2.4           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 20       | 2.4           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 20       | 2.4           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 16       | 2.4           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 16       | 2.4           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 16       | 2.4           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 16       | 2.4           |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 9        | 2.4           |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 9        | 2.4           |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 8        | 2.4           |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 8        | 2.4           |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 15       | 2.4           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 3        | 2.4           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 4        | 2.4           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 6        | 2.4           |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 6        | 2.4           |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 18       | 2.4           |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 18       | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 3        | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 7        | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 13       | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 16       | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 18       | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 19       | 2.4           |
| (1,1466) | 1:A:5:GLY:HA3  | 1:A:7:CYS:H    | 20       | 2.4           |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 2        | 2.39          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB2  | 5        | 2.39          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB2  | 5        | 2.39          |
| (1,889)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HB3  | 5        | 2.39          |
| (1,889)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HB3  | 5        | 2.39          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 14       | 2.39          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 18       | 2.39          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 19       | 2.39          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 1        | 2.39          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 15       | 2.39          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 15       | 2.39          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3  | 15       | 2.39          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3  | 15       | 2.39          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 7        | 2.39          |
| (1,4794) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB3 | 8        | 2.39          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3 | 15       | 2.39          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG2 | 3        | 2.39          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG3 | 3        | 2.39          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG2 | 6        | 2.39          |
| (1,4760) | 1:A:29:GLY:H    | 1:A:30:PRO:HG3 | 6        | 2.39          |
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA  | 17       | 2.39          |
| (1,4543) | 1:A:25:TYR:HB3  | 1:A:27:GLY:H   | 12       | 2.39          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2 | 19       | 2.39          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3 | 19       | 2.39          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2 | 19       | 2.39          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3 | 19       | 2.39          |
| (1,4289) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HA  | 17       | 2.39          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE1 | 15       | 2.39          |
| (1,4198) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HE2 | 15       | 2.39          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 14       | 2.39          |
| (1,4010) | 1:A:20:CYS:HB3  | 1:A:35:HIS:HE1 | 1        | 2.39          |
| (1,3421) | 1:A:15:ARG:HE   | 1:A:17:GLY:H   | 13       | 2.39          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 18       | 2.39          |
| (1,3137) | 1:A:13:GLY:HA2  | 1:A:20:CYS:H   | 15       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H   | 9        | 2.39          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H   | 9        | 2.39          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H   | 12       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H   | 12       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H   | 18       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H   | 18       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H   | 19       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H   | 19       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H   | 20       | 2.39          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H   | 20       | 2.39          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 14       | 2.39          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 14       | 2.39          |
| (1,1551) | 1:A:6:GLN:HA    | 1:A:11:TRP:HD1 | 5        | 2.39          |
| (1,1466) | 1:A:5:GLY:HA3   | 1:A:7:CYS:H    | 4        | 2.39          |
| (1,1466) | 1:A:5:GLY:HA3   | 1:A:7:CYS:H    | 6        | 2.39          |
| (1,1436) | 1:A:5:GLY:H     | 1:A:25:TYR:HA  | 7        | 2.39          |
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 7        | 2.39          |
| (1,1223) | 1:A:4:ASN:HB3   | 1:A:26:CYS:H   | 19       | 2.39          |
| (1,709)  | 1:A:2:GLY:HA3   | 1:A:3:PRO:HB2  | 4        | 2.38          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,613)  | 1:A:2:GLY:H     | 1:A:12:GLY:H   | 7        | 2.38          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB2  | 9        | 2.38          |
| (1,598)  | 1:A:2:GLY:H     | 1:A:4:ASN:HB3  | 9        | 2.38          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG2 | 1        | 2.38          |
| (1,553)  | 1:A:1:SER:HB2   | 1:A:15:ARG:HG3 | 1        | 2.38          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG2 | 1        | 2.38          |
| (1,553)  | 1:A:1:SER:HB3   | 1:A:15:ARG:HG3 | 1        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB1 | 1        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB2 | 1        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB3 | 1        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB1 | 6        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB2 | 6        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB3 | 6        | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB1 | 11       | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB2 | 11       | 2.38          |
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB3 | 11       | 2.38          |
| (1,4894) | 1:A:31:LYS:HB3  | 1:A:33:CYS:H   | 3        | 2.38          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ1 | 3        | 2.38          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ2 | 3        | 2.38          |
| (1,4809) | 1:A:30:PRO:HB3  | 1:A:31:LYS:HZ3 | 3        | 2.38          |
| (1,4794) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB3 | 2        | 2.38          |
| (1,4794) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB3 | 5        | 2.38          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3 | 1        | 2.38          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3 | 6        | 2.38          |
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA  | 7        | 2.38          |
| (1,4532) | 1:A:25:TYR:HB2  | 1:A:27:GLY:H   | 16       | 2.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB1 | 2        | 2.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB2 | 2        | 2.38          |
| (1,4334) | 1:A:22:GLN:HE22 | 1:A:34:ALA:HB3 | 2        | 2.38          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2 | 3        | 2.38          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3 | 3        | 2.38          |
| (1,4247) | 1:A:22:GLN:HG3  | 1:A:24:GLY:H   | 10       | 2.38          |
| (1,4247) | 1:A:22:GLN:HG3  | 1:A:24:GLY:H   | 20       | 2.38          |
| (1,4159) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HB3 | 17       | 2.38          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 16       | 2.38          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 19       | 2.38          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 13       | 2.38          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 13       | 2.38          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 16       | 2.38          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 16       | 2.38          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 11       | 2.38          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 11       | 2.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1 | 14       | 2.38          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2 | 14       | 2.38          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3 | 14       | 2.38          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 18       | 2.38          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 18       | 2.38          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 19       | 2.38          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 19       | 2.38          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 7        | 2.38          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 7        | 2.38          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H   | 14       | 2.38          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H   | 14       | 2.38          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 13       | 2.38          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 14       | 2.38          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 3        | 2.38          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 4        | 2.38          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 2        | 2.38          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 6        | 2.38          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 10       | 2.38          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 14       | 2.38          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 19       | 2.38          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 19       | 2.38          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 4        | 2.38          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 4        | 2.38          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 2        | 2.37          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 2        | 2.37          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 3        | 2.37          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 11       | 2.37          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 14       | 2.37          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 14       | 2.37          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 14       | 2.37          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 11       | 2.37          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 3        | 2.37          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 3        | 2.37          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 3        | 2.37          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 17       | 2.37          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 2        | 2.37          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 8        | 2.37          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 3        | 2.37          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 3        | 2.37          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 3        | 2.37          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 10       | 2.37          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 10       | 2.37          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA   | 5        | 2.37          |
| (1,4387) | 1:A:23:TYR:HB3  | 1:A:24:GLY:HA2  | 7        | 2.37          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1  | 2        | 2.37          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2  | 2        | 2.37          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3  | 2        | 2.37          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2  | 15       | 2.37          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3  | 15       | 2.37          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB2  | 13       | 2.37          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB3  | 13       | 2.37          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB2  | 16       | 2.37          |
| (1,4106) | 1:A:22:GLN:H    | 1:A:25:TYR:HB3  | 16       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 4        | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 7        | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 8        | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 9        | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 12       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 14       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 15       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 16       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 18       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 19       | 2.37          |
| (1,4065) | 1:A:21:SER:HG   | 1:A:22:GLN:HA   | 20       | 2.37          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2  | 7        | 2.37          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3  | 7        | 2.37          |
| (1,3644) | 1:A:18:LEU:H    | 1:A:19:CYS:HB2  | 7        | 2.37          |
| (1,3644) | 1:A:18:LEU:H    | 1:A:19:CYS:HB3  | 7        | 2.37          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD11 | 17       | 2.37          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD12 | 17       | 2.37          |
| (1,3590) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HD13 | 17       | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG2   | 2        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG3   | 2        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG2   | 4        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG3   | 4        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG2   | 5        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG3   | 5        | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG2   | 10       | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG3   | 10       | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG2   | 17       | 2.37          |
| (1,2023) | 1:A:8:GLY:H     | 1:A:9:PRO:HG3   | 17       | 2.37          |
| (1,2004) | 1:A:7:CYS:HB2   | 1:A:25:TYR:H    | 16       | 2.37          |
| (1,2004) | 1:A:7:CYS:HB3   | 1:A:25:TYR:H    | 16       | 2.37          |
| (1,1617) | 1:A:6:GLN:HB3   | 1:A:8:GLY:HA2   | 2        | 2.37          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 2        | 2.37          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 10       | 2.37          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 10       | 2.37          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 15       | 2.37          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 15       | 2.37          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 16       | 2.37          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 16       | 2.37          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 6        | 2.36          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 6        | 2.36          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 10       | 2.36          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 10       | 2.36          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 6        | 2.36          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 8        | 2.36          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 3        | 2.36          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 3        | 2.36          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 4        | 2.36          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 4        | 2.36          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 20       | 2.36          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 5        | 2.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 1        | 2.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 1        | 2.36          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 1        | 2.36          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 9        | 2.36          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 9        | 2.36          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 18       | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 2        | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 3        | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 4        | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 5        | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 6        | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 10       | 2.36          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 12       | 2.36          |
| (1,4237) | 1:A:22:GLN:HB3 | 1:A:32:TYR:HA  | 16       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 1        | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 1        | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 11       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 11       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 14       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 14       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 18       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 18       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 19       | 2.36          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 19       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2  | 20       | 2.36          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 20       | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 1        | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 2        | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 3        | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 5        | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 6        | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 10       | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 11       | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 13       | 2.36          |
| (1,4065) | 1:A:21:SER:HG  | 1:A:22:GLN:HA   | 17       | 2.36          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H    | 16       | 2.36          |
| (1,3908) | 1:A:19:CYS:HB3 | 1:A:35:HIS:HE1  | 1        | 2.36          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 20       | 2.36          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 5        | 2.36          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 5        | 2.36          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 5        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 1        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 1        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 3        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 3        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 6        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 6        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 7        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 7        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 8        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 8        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 9        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 9        | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 11       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 11       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 12       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 12       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 13       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 13       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 14       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 14       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 15       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 15       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2   | 16       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3   | 16       | 2.36          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2  | 18       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3  | 18       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2  | 19       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3  | 19       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG2  | 20       | 2.36          |
| (1,2023) | 1:A:8:GLY:H    | 1:A:9:PRO:HG3  | 20       | 2.36          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 17       | 2.36          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1 | 12       | 2.36          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2 | 12       | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 3        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 3        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 4        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 4        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 5        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 5        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 6        | 2.36          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 6        | 2.36          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 3        | 2.36          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 18       | 2.36          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 19       | 2.36          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 9        | 2.36          |
| (1,887)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:H    | 5        | 2.35          |
| (1,887)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:H    | 5        | 2.35          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 2        | 2.35          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 15       | 2.35          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 19       | 2.35          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 6        | 2.35          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 16       | 2.35          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3 | 13       | 2.35          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3 | 13       | 2.35          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3 | 13       | 2.35          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 17       | 2.35          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 17       | 2.35          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 17       | 2.35          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB2 | 14       | 2.35          |
| (1,4882) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HB3 | 14       | 2.35          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 4        | 2.35          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 6        | 2.35          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 6        | 2.35          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 6        | 2.35          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 11       | 2.35          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 11       | 2.35          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3  | 11       | 2.35          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3  | 19       | 2.35          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3  | 7        | 2.35          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3  | 9        | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 7        | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 13       | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 16       | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 17       | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 18       | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 19       | 2.35          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H    | 20       | 2.35          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 8        | 2.35          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 13       | 2.35          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2  | 15       | 2.35          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3  | 15       | 2.35          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2  | 5        | 2.35          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3  | 5        | 2.35          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H    | 7        | 2.35          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2  | 17       | 2.35          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3  | 17       | 2.35          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 18       | 2.35          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 19       | 2.35          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD11 | 6        | 2.35          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD12 | 6        | 2.35          |
| (1,3590) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HD13 | 6        | 2.35          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 19       | 2.35          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 4        | 2.35          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 4        | 2.35          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2  | 14       | 2.35          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3  | 14       | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 4        | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 7        | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 8        | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 12       | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 16       | 2.35          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1  | 20       | 2.35          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 3        | 2.35          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 3        | 2.35          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1  | 6        | 2.35          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2  | 6        | 2.35          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2   | 20       | 2.35          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3   | 20       | 2.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 4        | 2.35          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 6        | 2.34          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 10       | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 1        | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 5        | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 7        | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 10       | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 12       | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 13       | 2.34          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 20       | 2.34          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 3        | 2.34          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 5        | 2.34          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 19       | 2.34          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 15       | 2.34          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 19       | 2.34          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 19       | 2.34          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 19       | 2.34          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 19       | 2.34          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 11       | 2.34          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 16       | 2.34          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 5        | 2.34          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 5        | 2.34          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 6        | 2.34          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 6        | 2.34          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 10       | 2.34          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 10       | 2.34          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 16       | 2.34          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 10       | 2.34          |
| (1,4532) | 1:A:25:TYR:HB2 | 1:A:27:GLY:H   | 10       | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 1        | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 8        | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 9        | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 11       | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 14       | 2.34          |
| (1,4464) | 1:A:24:GLY:HA2 | 1:A:26:CYS:H   | 15       | 2.34          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 3        | 2.34          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 13       | 2.34          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 17       | 2.34          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 7        | 2.34          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 7        | 2.34          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 8        | 2.34          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 8        | 2.34          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB2 | 9        | 2.34          |
| (1,4106) | 1:A:22:GLN:H   | 1:A:25:TYR:HB3 | 9        | 2.34          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 9        | 2.34          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB1 | 8        | 2.34          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB2 | 8        | 2.34          |
| (1,3883) | 1:A:19:CYS:HB2 | 1:A:34:ALA:HB3 | 8        | 2.34          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 20       | 2.34          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 1        | 2.34          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2 | 14       | 2.34          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 14       | 2.34          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 11       | 2.34          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 11       | 2.34          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 11       | 2.34          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 11       | 2.34          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 6        | 2.34          |
| (1,3170) | 1:A:14:CYS:H   | 1:A:15:ARG:HE  | 12       | 2.34          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 7        | 2.34          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 7        | 2.34          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 11       | 2.34          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 11       | 2.34          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 6        | 2.34          |
| (1,1743) | 1:A:6:GLN:HG3  | 1:A:11:TRP:HB3 | 17       | 2.34          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 9        | 2.34          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 11       | 2.34          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 1        | 2.34          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 1        | 2.34          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 3        | 2.33          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 16       | 2.33          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 18       | 2.33          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 8        | 2.33          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 15       | 2.33          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 15       | 2.33          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 13       | 2.33          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 13       | 2.33          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 13       | 2.33          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 15       | 2.33          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 15       | 2.33          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 1        | 2.33          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 1        | 2.33          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 3        | 2.33          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 3        | 2.33          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 11       | 2.33          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 11       | 2.33          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 13       | 2.33          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 3        | 2.33          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 10       | 2.33          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 18       | 2.33          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 19       | 2.33          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 7        | 2.33          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 7        | 2.33          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 16       | 2.33          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 18       | 2.33          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 19       | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 3        | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 3        | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 4        | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 4        | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 16       | 2.33          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 16       | 2.33          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 18       | 2.33          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 14       | 2.33          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H   | 5        | 2.33          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 14       | 2.33          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 15       | 2.33          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 15       | 2.33          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 15       | 2.33          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 15       | 2.33          |
| (1,1957) | 1:A:7:CYS:H    | 1:A:26:CYS:HA  | 1        | 2.33          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 13       | 2.33          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 15       | 2.33          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 4        | 2.33          |
| (1,1623) | 1:A:6:GLN:HB3  | 1:A:11:TRP:H   | 17       | 2.33          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 1        | 2.33          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 4        | 2.33          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 4        | 2.33          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 12       | 2.33          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 12       | 2.33          |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 17       | 2.32          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 7        | 2.32          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 16       | 2.32          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 18       | 2.32          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 1        | 2.32          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 18       | 2.32          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 18       | 2.32          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4919) | 1:A:32:TYR:HA   | 1:A:34:ALA:HB3 | 18       | 2.32          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 13       | 2.32          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 18       | 2.32          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB1 | 5        | 2.32          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB2 | 5        | 2.32          |
| (1,4847) | 1:A:30:PRO:HD3  | 1:A:34:ALA:HB3 | 5        | 2.32          |
| (1,4824) | 1:A:30:PRO:HG2  | 1:A:33:CYS:HB2 | 7        | 2.32          |
| (1,4824) | 1:A:30:PRO:HG3  | 1:A:33:CYS:HB2 | 7        | 2.32          |
| (1,4823) | 1:A:30:PRO:HG2  | 1:A:33:CYS:H   | 12       | 2.32          |
| (1,4823) | 1:A:30:PRO:HG3  | 1:A:33:CYS:H   | 12       | 2.32          |
| (1,4823) | 1:A:30:PRO:HG2  | 1:A:33:CYS:H   | 14       | 2.32          |
| (1,4823) | 1:A:30:PRO:HG3  | 1:A:33:CYS:H   | 14       | 2.32          |
| (1,4773) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB3 | 19       | 2.32          |
| (1,4292) | 1:A:22:GLN:HE21 | 1:A:32:TYR:HA  | 17       | 2.32          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 4        | 2.32          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA  | 12       | 2.32          |
| (1,3989) | 1:A:20:CYS:HB3  | 1:A:24:GLY:H   | 20       | 2.32          |
| (1,3644) | 1:A:18:LEU:H    | 1:A:19:CYS:HB2 | 2        | 2.32          |
| (1,3644) | 1:A:18:LEU:H    | 1:A:19:CYS:HB3 | 2        | 2.32          |
| (1,3610) | 1:A:17:GLY:HA2  | 1:A:29:GLY:H   | 19       | 2.32          |
| (1,3394) | 1:A:15:ARG:HD2  | 1:A:18:LEU:H   | 2        | 2.32          |
| (1,3394) | 1:A:15:ARG:HD3  | 1:A:18:LEU:H   | 2        | 2.32          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 1        | 2.32          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB2 | 6        | 2.32          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB2 | 6        | 2.32          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB3 | 6        | 2.32          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB3 | 6        | 2.32          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB2 | 10       | 2.32          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB2 | 10       | 2.32          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB3 | 10       | 2.32          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB3 | 10       | 2.32          |
| (1,1957) | 1:A:7:CYS:H     | 1:A:26:CYS:HA  | 11       | 2.32          |
| (1,1944) | 1:A:7:CYS:H     | 1:A:21:SER:H   | 1        | 2.32          |
| (1,1944) | 1:A:7:CYS:H     | 1:A:21:SER:H   | 11       | 2.32          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3 | 9        | 2.32          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3 | 18       | 2.32          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3 | 19       | 2.32          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3 | 20       | 2.32          |
| (1,1617) | 1:A:6:GLN:HB3   | 1:A:8:GLY:HA2  | 14       | 2.32          |
| (1,1617) | 1:A:6:GLN:HB3   | 1:A:8:GLY:HA3  | 14       | 2.32          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB2 | 13       | 2.32          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB3 | 13       | 2.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1 | 3        | 2.32          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2 | 3        | 2.32          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 14       | 2.32          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 9        | 2.32          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 9        | 2.32          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 3        | 2.31          |
| (1,680)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HG2  | 14       | 2.31          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 12       | 2.31          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 16       | 2.31          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 16       | 2.31          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 16       | 2.31          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 16       | 2.31          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 3        | 2.31          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 3        | 2.31          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 3        | 2.31          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 3        | 2.31          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 12       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 19       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 19       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 19       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 20       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 20       | 2.31          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 20       | 2.31          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 10       | 2.31          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 9        | 2.31          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 9        | 2.31          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 9        | 2.31          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 14       | 2.31          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2 | 17       | 2.31          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2 | 17       | 2.31          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 2        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 2        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 4        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 4        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 8        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 8        | 2.31          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 13       | 2.31          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 13       | 2.31          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 15       | 2.31          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 15       | 2.31          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 18       | 2.31          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 18       | 2.31          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 14       | 2.31          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 6        | 2.31          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 9        | 2.31          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 18       | 2.31          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 4        | 2.31          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 2        | 2.31          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3 | 20       | 2.31          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 2        | 2.31          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 2        | 2.31          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 16       | 2.31          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 10       | 2.31          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 10       | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 2        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 2        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 2        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 2        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 4        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 4        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 4        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 4        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 5        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 5        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 5        | 2.31          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 5        | 2.31          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 9        | 2.31          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 9        | 2.31          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 19       | 2.31          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 19       | 2.31          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 8        | 2.31          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 12       | 2.31          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 3        | 2.31          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 9        | 2.31          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 9        | 2.31          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 16       | 2.31          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 16       | 2.31          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 20       | 2.31          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 5        | 2.3           |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 4        | 2.3           |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 14       | 2.3           |
| (1,709)  | 1:A:2:GLY:HA3  | 1:A:3:PRO:HB2  | 9        | 2.3           |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 8        | 2.3           |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 13       | 2.3           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 20       | 2.3           |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 4        | 2.3           |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 4        | 2.3           |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 9        | 2.3           |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 5        | 2.3           |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 20       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 5        | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 5        | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 18       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 18       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 19       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 19       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 20       | 2.3           |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 20       | 2.3           |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 3        | 2.3           |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 3        | 2.3           |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 3        | 2.3           |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 3        | 2.3           |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 18       | 2.3           |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 18       | 2.3           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 18       | 2.3           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 19       | 2.3           |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 20       | 2.3           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 1        | 2.3           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 1        | 2.3           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2 | 15       | 2.3           |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3 | 15       | 2.3           |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 2        | 2.3           |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 10       | 2.3           |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 7        | 2.3           |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 8        | 2.3           |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 17       | 2.3           |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 17       | 2.3           |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 6        | 2.3           |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 6        | 2.3           |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 1        | 2.3           |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 14       | 2.3           |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 14       | 2.3           |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 4        | 2.29          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 9        | 2.29          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 13       | 2.29          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 11       | 2.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 8        | 2.29          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 14       | 2.29          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 14       | 2.29          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 14       | 2.29          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 14       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 18       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 18       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 18       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 19       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 19       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 19       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB1 | 20       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB2 | 20       | 2.29          |
| (1,4847) | 1:A:30:PRO:HD3 | 1:A:34:ALA:HB3 | 20       | 2.29          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 17       | 2.29          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 17       | 2.29          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 17       | 2.29          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 2        | 2.29          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 2        | 2.29          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 4        | 2.29          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 4        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 1        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 1        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 3        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 3        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 5        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 5        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 6        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 6        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 7        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 7        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 9        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 9        | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 10       | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 10       | 2.29          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 11       | 2.29          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 11       | 2.29          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 12       | 2.29          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 17       | 2.29          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 8        | 2.29          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 9        | 2.29          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 9        | 2.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 8        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 4        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 4        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 6        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 6        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 9        | 2.29          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 9        | 2.29          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 20       | 2.29          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 7        | 2.29          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 1        | 2.29          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 1        | 2.29          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 1        | 2.29          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 1        | 2.29          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H   | 13       | 2.29          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 11       | 2.29          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 11       | 2.29          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 11       | 2.29          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 11       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 12       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 12       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 16       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 16       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 20       | 2.29          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 20       | 2.29          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 7        | 2.29          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 9        | 2.29          |
| (1,1944) | 1:A:7:CYS:H    | 1:A:21:SER:H   | 16       | 2.29          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 5        | 2.29          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 10       | 2.29          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 10       | 2.29          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 16       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 1        | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 1        | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 11       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 11       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 13       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 13       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 15       | 2.29          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 15       | 2.29          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 18       | 2.29          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 18       | 2.29          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 15       | 2.29          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 15       | 2.29          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 12       | 2.28          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 19       | 2.28          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 20       | 2.28          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 20       | 2.28          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 20       | 2.28          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 20       | 2.28          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 12       | 2.28          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 8        | 2.28          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 12       | 2.28          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 14       | 2.28          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 16       | 2.28          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 16       | 2.28          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 17       | 2.28          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 17       | 2.28          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 20       | 2.28          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 20       | 2.28          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3 | 17       | 2.28          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2 | 13       | 2.28          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3 | 13       | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 1        | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 1        | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 3        | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 3        | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 10       | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 10       | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 16       | 2.28          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 16       | 2.28          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 18       | 2.28          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 19       | 2.28          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 1        | 2.28          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 11       | 2.28          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 7        | 2.28          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 7        | 2.28          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 19       | 2.28          |
| (1,1925) | 1:A:7:CYS:H    | 1:A:11:TRP:HE1 | 17       | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 2        | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 2        | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 4        | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 4        | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 5        | 2.28          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 5        | 2.28          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 12       | 2.28          |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 15       | 2.28          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 8        | 2.28          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 8        | 2.28          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 19       | 2.28          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 19       | 2.28          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 3        | 2.28          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 5        | 2.28          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 15       | 2.28          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 1        | 2.27          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 9        | 2.27          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 14       | 2.27          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 15       | 2.27          |
| (1,749)  | 1:A:3:PRO:HA   | 1:A:4:ASN:HD22 | 20       | 2.27          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22 | 20       | 2.27          |
| (1,613)  | 1:A:2:GLY:H    | 1:A:12:GLY:H   | 11       | 2.27          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 7        | 2.27          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 11       | 2.27          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 11       | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 2        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 3        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 4        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 5        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 6        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 9        | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 13       | 2.27          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 15       | 2.27          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 3        | 2.27          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 3        | 2.27          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 3        | 2.27          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H   | 2        | 2.27          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H   | 2        | 2.27          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 18       | 2.27          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 18       | 2.27          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 19       | 2.27          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 19       | 2.27          |
| (1,4823) | 1:A:30:PRO:HG2 | 1:A:33:CYS:H   | 20       | 2.27          |
| (1,4823) | 1:A:30:PRO:HG3 | 1:A:33:CYS:H   | 20       | 2.27          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 11       | 2.27          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 11       | 2.27          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 11       | 2.27          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 14       | 2.27          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA   | 5        | 2.27          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 16       | 2.27          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 19       | 2.27          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 4        | 2.27          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 19       | 2.27          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H    | 12       | 2.27          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 13       | 2.27          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 12       | 2.27          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 12       | 2.27          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 15       | 2.27          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 9        | 2.27          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 9        | 2.27          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD11 | 17       | 2.27          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD12 | 17       | 2.27          |
| (1,1993) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HD13 | 17       | 2.27          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD11 | 17       | 2.27          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD12 | 17       | 2.27          |
| (1,1993) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HD13 | 17       | 2.27          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2  | 13       | 2.27          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2  | 13       | 2.27          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3  | 13       | 2.27          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3  | 13       | 2.27          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB2  | 13       | 2.27          |
| (1,1800) | 1:A:6:GLN:HE21 | 1:A:11:TRP:HB3  | 13       | 2.27          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3  | 5        | 2.27          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2   | 9        | 2.27          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3   | 9        | 2.27          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2   | 12       | 2.27          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3   | 12       | 2.27          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3   | 5        | 2.27          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3   | 6        | 2.27          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 4        | 2.27          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2  | 8        | 2.26          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3  | 8        | 2.26          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2  | 8        | 2.26          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3  | 8        | 2.26          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 1        | 2.26          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 7        | 2.26          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 11       | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 1        | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 1        | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 1        | 2.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 6        | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 6        | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 6        | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1 | 11       | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2 | 11       | 2.26          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3 | 11       | 2.26          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H   | 13       | 2.26          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H   | 13       | 2.26          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2 | 12       | 2.26          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 13       | 2.26          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 15       | 2.26          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 18       | 2.26          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 20       | 2.26          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2 | 11       | 2.26          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 3        | 2.26          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 10       | 2.26          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 15       | 2.26          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 16       | 2.26          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1 | 19       | 2.26          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2 | 19       | 2.26          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 19       | 2.26          |
| (1,4159) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HB3 | 1        | 2.26          |
| (1,4054) | 1:A:21:SER:HB3 | 1:A:22:GLN:HG3 | 1        | 2.26          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 14       | 2.26          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 17       | 2.26          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 8        | 2.26          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 8        | 2.26          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H   | 16       | 2.26          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 7        | 2.26          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 1        | 2.26          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 1        | 2.26          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 13       | 2.26          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 13       | 2.26          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2 | 7        | 2.26          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 7        | 2.26          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2 | 16       | 2.26          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 16       | 2.26          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 20       | 2.26          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 20       | 2.26          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB2 | 1        | 2.26          |
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB2 | 1        | 2.26          |
| (1,1991) | 1:A:7:CYS:HB2  | 1:A:18:LEU:HB3 | 1        | 2.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1991) | 1:A:7:CYS:HB3  | 1:A:18:LEU:HB3 | 1        | 2.26          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 8        | 2.26          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 8        | 2.26          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 6        | 2.26          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 6        | 2.26          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 6        | 2.26          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 10       | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 8        | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 8        | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 16       | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 16       | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2  | 20       | 2.26          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3  | 20       | 2.26          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2 | 7        | 2.26          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3 | 7        | 2.26          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 2        | 2.26          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA  | 6        | 2.26          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 17       | 2.26          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 16       | 2.25          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 16       | 2.25          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 18       | 2.25          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 18       | 2.25          |
| (1,608)  | 1:A:2:GLY:H    | 1:A:11:TRP:H   | 9        | 2.25          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 16       | 2.25          |
| (1,544)  | 1:A:1:SER:HB2  | 1:A:11:TRP:H   | 9        | 2.25          |
| (1,544)  | 1:A:1:SER:HB3  | 1:A:11:TRP:H   | 9        | 2.25          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 14       | 2.25          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 14       | 2.25          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 10       | 2.25          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 16       | 2.25          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H   | 17       | 2.25          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA  | 12       | 2.25          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA  | 12       | 2.25          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ1 | 16       | 2.25          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ2 | 16       | 2.25          |
| (1,4809) | 1:A:30:PRO:HB3 | 1:A:31:LYS:HZ3 | 16       | 2.25          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 19       | 2.25          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 3        | 2.25          |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2 | 3        | 2.25          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 9        | 2.25          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 11       | 2.25          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 11       | 2.25          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2  | 12       | 2.25          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2  | 11       | 2.25          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3  | 11       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 8        | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 8        | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 9        | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 9        | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 18       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 18       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 19       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 19       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 20       | 2.25          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 20       | 2.25          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 7        | 2.25          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 9        | 2.25          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 11       | 2.25          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 20       | 2.25          |
| (1,3227) | 1:A:14:CYS:HB3 | 1:A:17:GLY:H    | 17       | 2.25          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 1        | 2.25          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 1        | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 15       | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 15       | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 15       | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 15       | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 15       | 2.25          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 15       | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2   | 7        | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3   | 7        | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2   | 18       | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3   | 18       | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA2   | 19       | 2.25          |
| (1,1617) | 1:A:6:GLN:HB3  | 1:A:8:GLY:HA3   | 19       | 2.25          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE1  | 4        | 2.25          |
| (1,1438) | 1:A:5:GLY:H    | 1:A:25:TYR:HE2  | 4        | 2.25          |
| (1,1436) | 1:A:5:GLY:H    | 1:A:25:TYR:HA   | 10       | 2.25          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2  | 17       | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 5        | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 5        | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 7        | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 7        | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 10       | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 10       | 2.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 17       | 2.24          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 17       | 2.24          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2   | 1        | 2.24          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2   | 1        | 2.24          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3   | 1        | 2.24          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3   | 1        | 2.24          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 10       | 2.24          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 10       | 2.24          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 10       | 2.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 3        | 2.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 3        | 2.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 17       | 2.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 17       | 2.24          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 16       | 2.24          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 18       | 2.24          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 19       | 2.24          |
| (1,4845) | 1:A:30:PRO:HD3 | 1:A:33:CYS:H    | 20       | 2.24          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 5        | 2.24          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 5        | 2.24          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 5        | 2.24          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 17       | 2.24          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA   | 17       | 2.24          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 12       | 2.24          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 12       | 2.24          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2  | 4        | 2.24          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3  | 4        | 2.24          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2  | 12       | 2.24          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3  | 12       | 2.24          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2  | 15       | 2.24          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3  | 15       | 2.24          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H    | 16       | 2.24          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 16       | 2.24          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 16       | 2.24          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 19       | 2.24          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 19       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 11       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 13       | 2.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 13       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 13       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 13       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 13       | 2.24          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 13       | 2.24          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3  | 14       | 2.24          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3  | 2        | 2.24          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3  | 4        | 2.24          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB2  | 20       | 2.24          |
| (1,1479) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HB3  | 20       | 2.24          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22  | 9        | 2.23          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 12       | 2.23          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 12       | 2.23          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 19       | 2.23          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 19       | 2.23          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB2  | 8        | 2.23          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB2  | 8        | 2.23          |
| (1,552)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HB3  | 8        | 2.23          |
| (1,552)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HB3  | 8        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H    | 3        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H    | 3        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H    | 5        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H    | 5        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H    | 6        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H    | 6        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H    | 9        | 2.23          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H    | 9        | 2.23          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 6        | 2.23          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 6        | 2.23          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 9        | 2.23          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 9        | 2.23          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 9        | 2.23          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 14       | 2.23          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 14       | 2.23          |
| (1,4826) | 1:A:30:PRO:HG2 | 1:A:34:ALA:HA   | 14       | 2.23          |
| (1,4826) | 1:A:30:PRO:HG3 | 1:A:34:ALA:HA   | 14       | 2.23          |
| (1,4825) | 1:A:30:PRO:HG2 | 1:A:34:ALA:H    | 7        | 2.23          |
| (1,4825) | 1:A:30:PRO:HG3 | 1:A:34:ALA:H    | 7        | 2.23          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 12       | 2.23          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 6        | 2.23          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H    | 1        | 2.23          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA   | 6        | 2.23          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 13       | 2.23          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 19       | 2.23          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 19       | 2.23          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 19       | 2.23          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2 | 9        | 2.23          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3 | 9        | 2.23          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB2 | 13       | 2.23          |
| (1,3927) | 1:A:20:CYS:H   | 1:A:26:CYS:HB3 | 13       | 2.23          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 10       | 2.23          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 9        | 2.23          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 10       | 2.23          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H   | 8        | 2.23          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H   | 18       | 2.23          |
| (1,3244) | 1:A:14:CYS:HB3 | 1:A:26:CYS:H   | 19       | 2.23          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 18       | 2.23          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 18       | 2.23          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 3        | 2.23          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 17       | 2.23          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 15       | 2.23          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 15       | 2.23          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 14       | 2.23          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA2 | 3        | 2.23          |
| (1,1720) | 1:A:6:GLN:HG2  | 1:A:24:GLY:HA3 | 3        | 2.23          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 3        | 2.23          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 2        | 2.23          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 14       | 2.22          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 2        | 2.22          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 2        | 2.22          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 13       | 2.22          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 13       | 2.22          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 12       | 2.22          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 6        | 2.22          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 6        | 2.22          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 6        | 2.22          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 6        | 2.22          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 13       | 2.22          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 13       | 2.22          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 13       | 2.22          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 13       | 2.22          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 1        | 2.22          |
| (1,4927) | 1:A:32:TYR:HD2 | 1:A:34:ALA:H   | 1        | 2.22          |
| (1,4927) | 1:A:32:TYR:HD1 | 1:A:34:ALA:H   | 11       | 2.22          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H    | 11       | 2.22          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H    | 17       | 2.22          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H    | 17       | 2.22          |
| (1,4904) | 1:A:31:LYS:HE2  | 1:A:34:ALA:H    | 11       | 2.22          |
| (1,4904) | 1:A:31:LYS:HE3  | 1:A:34:ALA:H    | 11       | 2.22          |
| (1,4824) | 1:A:30:PRO:HG2  | 1:A:33:CYS:HB2  | 16       | 2.22          |
| (1,4824) | 1:A:30:PRO:HG3  | 1:A:33:CYS:HB2  | 16       | 2.22          |
| (1,4824) | 1:A:30:PRO:HG2  | 1:A:33:CYS:HB2  | 18       | 2.22          |
| (1,4824) | 1:A:30:PRO:HG3  | 1:A:33:CYS:HB2  | 18       | 2.22          |
| (1,4817) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HD2  | 10       | 2.22          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB2  | 16       | 2.22          |
| (1,4273) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HB3  | 16       | 2.22          |
| (1,4213) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HD2  | 17       | 2.22          |
| (1,4195) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HA   | 18       | 2.22          |
| (1,4157) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HA   | 8        | 2.22          |
| (1,4157) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HA   | 9        | 2.22          |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H    | 4        | 2.22          |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H    | 12       | 2.22          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 9        | 2.22          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 9        | 2.22          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2  | 16       | 2.22          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3  | 16       | 2.22          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1  | 7        | 2.22          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2  | 7        | 2.22          |
| (1,3989) | 1:A:20:CYS:HB3  | 1:A:24:GLY:H    | 6        | 2.22          |
| (1,3866) | 1:A:19:CYS:HB2  | 1:A:21:SER:H    | 1        | 2.22          |
| (1,3866) | 1:A:19:CYS:HB2  | 1:A:21:SER:H    | 11       | 2.22          |
| (1,3691) | 1:A:18:LEU:HB2  | 1:A:27:GLY:HA2  | 15       | 2.22          |
| (1,3357) | 1:A:15:ARG:HG2  | 1:A:16:GLY:HA2  | 5        | 2.22          |
| (1,3357) | 1:A:15:ARG:HG3  | 1:A:16:GLY:HA2  | 5        | 2.22          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 8        | 2.22          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 8        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 1        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 1        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 1        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 1        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 1        | 2.22          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 1        | 2.22          |
| (1,2615) | 1:A:11:TRP:HA   | 1:A:11:TRP:HE1  | 13       | 2.22          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3  | 13       | 2.22          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3  | 15       | 2.22          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3   | 10       | 2.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2  | 13       | 2.21          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22  | 1        | 2.21          |
| (1,711)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HD22  | 15       | 2.21          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 6        | 2.21          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 6        | 2.21          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2   | 8        | 2.21          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3   | 8        | 2.21          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H     | 18       | 2.21          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 12       | 2.21          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 12       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 18       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 18       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 18       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB1  | 19       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB2  | 19       | 2.21          |
| (1,4835) | 1:A:30:PRO:HD2 | 1:A:34:ALA:HB3  | 19       | 2.21          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2  | 19       | 2.21          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2  | 19       | 2.21          |
| (1,4824) | 1:A:30:PRO:HG2 | 1:A:33:CYS:HB2  | 20       | 2.21          |
| (1,4824) | 1:A:30:PRO:HG3 | 1:A:33:CYS:HB2  | 20       | 2.21          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA   | 4        | 2.21          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA   | 11       | 2.21          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H    | 3        | 2.21          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 18       | 2.21          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H    | 3        | 2.21          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H    | 6        | 2.21          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 8        | 2.21          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 8        | 2.21          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 12       | 2.21          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 12       | 2.21          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2  | 17       | 2.21          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3  | 17       | 2.21          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1  | 9        | 2.21          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2  | 9        | 2.21          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H    | 5        | 2.21          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 2        | 2.21          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 3        | 2.21          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 4        | 2.21          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 6        | 2.21          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H    | 13       | 2.21          |
| (1,3834) | 1:A:19:CYS:H   | 1:A:29:GLY:H    | 10       | 2.21          |
| (1,3744) | 1:A:18:LEU:HG  | 1:A:28:SER:H    | 14       | 2.21          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3691) | 1:A:18:LEU:HB2  | 1:A:27:GLY:HA2 | 3        | 2.21          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2 | 12       | 2.21          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3 | 12       | 2.21          |
| (1,2615) | 1:A:11:TRP:HA   | 1:A:11:TRP:HE1 | 17       | 2.21          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB2 | 5        | 2.21          |
| (1,1530) | 1:A:6:GLN:H     | 1:A:25:TYR:HB3 | 5        | 2.21          |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB2 | 16       | 2.2           |
| (1,4882) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HB3 | 16       | 2.2           |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB1 | 20       | 2.2           |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB2 | 20       | 2.2           |
| (1,4835) | 1:A:30:PRO:HD2  | 1:A:34:ALA:HB3 | 20       | 2.2           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 5        | 2.2           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 5        | 2.2           |
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA  | 8        | 2.2           |
| (1,4686) | 1:A:27:GLY:H    | 1:A:32:TYR:HA  | 14       | 2.2           |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 20       | 2.2           |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 20       | 2.2           |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 20       | 2.2           |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 20       | 2.2           |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 5        | 2.2           |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 5        | 2.2           |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 1        | 2.2           |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 1        | 2.2           |
| (1,4194) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HA  | 16       | 2.2           |
| (1,4157) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HA  | 4        | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 7        | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 8        | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 9        | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 11       | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 15       | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 18       | 2.2           |
| (1,4137) | 1:A:22:GLN:HA   | 1:A:25:TYR:H   | 19       | 2.2           |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 8        | 2.2           |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 8        | 2.2           |
| (1,3989) | 1:A:20:CYS:HB3  | 1:A:24:GLY:H   | 3        | 2.2           |
| (1,3989) | 1:A:20:CYS:HB3  | 1:A:24:GLY:H   | 15       | 2.2           |
| (1,3866) | 1:A:19:CYS:HB2  | 1:A:21:SER:H   | 5        | 2.2           |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 12       | 2.2           |
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3 | 2        | 2.2           |
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3 | 4        | 2.2           |
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3 | 5        | 2.2           |
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3 | 10       | 2.2           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 15       | 2.2           |
| (1,1551) | 1:A:6:GLN:HA   | 1:A:11:TRP:HD1 | 17       | 2.2           |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 14       | 2.2           |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 8        | 2.2           |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 19       | 2.2           |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 2        | 2.19          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB2  | 11       | 2.19          |
| (1,677)  | 1:A:2:GLY:HA2  | 1:A:4:ASN:HB3  | 11       | 2.19          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 9        | 2.19          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 4        | 2.19          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB2  | 17       | 2.19          |
| (1,598)  | 1:A:2:GLY:H    | 1:A:4:ASN:HB3  | 17       | 2.19          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 2        | 2.19          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 2        | 2.19          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 2        | 2.19          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 2        | 2.19          |
| (1,4839) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB3 | 20       | 2.19          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 3        | 2.19          |
| (1,4246) | 1:A:22:GLN:HG3 | 1:A:23:TYR:HB3 | 10       | 2.19          |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1 | 17       | 2.19          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1 | 18       | 2.19          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2 | 18       | 2.19          |
| (1,4195) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HA  | 7        | 2.19          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 2        | 2.19          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 5        | 2.19          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 11       | 2.19          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 1        | 2.19          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 13       | 2.19          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 16       | 2.19          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 20       | 2.19          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG2 | 2        | 2.19          |
| (1,4122) | 1:A:22:GLN:H   | 1:A:31:LYS:HG3 | 2        | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 1        | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 1        | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 11       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 11       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 14       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 14       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 15       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 15       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 17       | 2.19          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 17       | 2.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 11       | 2.19          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 7        | 2.19          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 15       | 2.19          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 16       | 2.19          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 18       | 2.19          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 19       | 2.19          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 12       | 2.19          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H   | 2        | 2.19          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3 | 15       | 2.19          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 1        | 2.19          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 11       | 2.19          |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 13       | 2.19          |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 17       | 2.19          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 5        | 2.19          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 14       | 2.19          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 17       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 7        | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 7        | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 13       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 13       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 16       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 16       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 18       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 18       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 19       | 2.19          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 19       | 2.19          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 12       | 2.19          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 18       | 2.19          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 17       | 2.18          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 17       | 2.18          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 15       | 2.18          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 15       | 2.18          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 12       | 2.18          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 12       | 2.18          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 12       | 2.18          |
| (1,4825) | 1:A:30:PRO:HG2 | 1:A:34:ALA:H   | 16       | 2.18          |
| (1,4825) | 1:A:30:PRO:HG3 | 1:A:34:ALA:H   | 16       | 2.18          |
| (1,4773) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB3 | 20       | 2.18          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 15       | 2.18          |
| (1,4686) | 1:A:27:GLY:H   | 1:A:32:TYR:HA  | 2        | 2.18          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 2        | 2.18          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 5        | 2.18          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 10       | 2.18          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 14       | 2.18          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 12       | 2.18          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 12       | 2.18          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 4        | 2.18          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 13       | 2.18          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H   | 14       | 2.18          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 9        | 2.18          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 20       | 2.18          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 3        | 2.18          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 9        | 2.18          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 4        | 2.18          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 8        | 2.18          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 5        | 2.18          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 5        | 2.18          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 6        | 2.18          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 6        | 2.18          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 18       | 2.18          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 18       | 2.18          |
| (1,3171) | 1:A:14:CYS:H   | 1:A:18:LEU:HB3 | 6        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 2        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 3        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 4        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 5        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 6        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 7        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 8        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 9        | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 10       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 12       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 14       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 16       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 18       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 19       | 2.18          |
| (1,2615) | 1:A:11:TRP:HA  | 1:A:11:TRP:HE1 | 20       | 2.18          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 1        | 2.18          |
| (1,1702) | 1:A:6:GLN:HG2  | 1:A:11:TRP:HE3 | 11       | 2.18          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 13       | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 8        | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 8        | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 11       | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 11       | 2.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 15       | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 15       | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 20       | 2.18          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 20       | 2.18          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2   | 17       | 2.17          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1  | 12       | 2.17          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2  | 12       | 2.17          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1  | 5        | 2.17          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2  | 5        | 2.17          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3  | 5        | 2.17          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2  | 20       | 2.17          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3  | 20       | 2.17          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2  | 15       | 2.17          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2  | 8        | 2.17          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2  | 8        | 2.17          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3  | 8        | 2.17          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3  | 8        | 2.17          |
| (1,4387) | 1:A:23:TYR:HB3 | 1:A:24:GLY:HA2  | 15       | 2.17          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 7        | 2.17          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 7        | 2.17          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 7        | 2.17          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H    | 1        | 2.17          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H    | 12       | 2.17          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2  | 8        | 2.17          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3  | 4        | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2  | 2        | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3  | 2        | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2  | 6        | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3  | 6        | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2  | 13       | 2.17          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3  | 13       | 2.17          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3  | 12       | 2.17          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 14       | 2.17          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 14       | 2.17          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2  | 10       | 2.17          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3  | 10       | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 1        | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 1        | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 9        | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 9        | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2   | 12       | 2.17          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3   | 12       | 2.17          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 3        | 2.17          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 17       | 2.16          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 7        | 2.16          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 12       | 2.16          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 16       | 2.16          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 18       | 2.16          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 16       | 2.16          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 16       | 2.16          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 16       | 2.16          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 16       | 2.16          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 3        | 2.16          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 3        | 2.16          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 1        | 2.16          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 1        | 2.16          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 16       | 2.16          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 18       | 2.16          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 19       | 2.16          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 20       | 2.16          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 14       | 2.16          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 14       | 2.16          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 19       | 2.16          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 19       | 2.16          |
| (1,4794) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB3 | 20       | 2.16          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2 | 6        | 2.16          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2 | 1        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 2        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 2        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 2        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 2        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 7        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 7        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 7        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 7        | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 16       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 16       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 16       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 16       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 17       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 17       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 17       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 17       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 19       | 2.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 19       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 19       | 2.16          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 19       | 2.16          |
| (1,4137) | 1:A:22:GLN:HA  | 1:A:25:TYR:H   | 17       | 2.16          |
| (1,4068) | 1:A:21:SER:HG  | 1:A:22:GLN:HG3 | 16       | 2.16          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 2        | 2.16          |
| (1,3989) | 1:A:20:CYS:HB3 | 1:A:24:GLY:H   | 10       | 2.16          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 17       | 2.16          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H   | 3        | 2.16          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H   | 6        | 2.16          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H   | 10       | 2.16          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 8        | 2.16          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 12       | 2.16          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 14       | 2.16          |
| (1,3866) | 1:A:19:CYS:HB2 | 1:A:21:SER:H   | 17       | 2.16          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 13       | 2.16          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 17       | 2.16          |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 17       | 2.16          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 3        | 2.16          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 3        | 2.16          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 11       | 2.16          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 11       | 2.16          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 13       | 2.16          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 13       | 2.16          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 5        | 2.16          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 5        | 2.16          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 10       | 2.16          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 10       | 2.16          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 9        | 2.16          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 11       | 2.16          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 5        | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 7        | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 11       | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 12       | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 16       | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 18       | 2.15          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 10       | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 1        | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 5        | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 10       | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 13       | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 15       | 2.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 19       | 2.15          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 20       | 2.15          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 7        | 2.15          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 7        | 2.15          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 7        | 2.15          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 7        | 2.15          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 2        | 2.15          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 4        | 2.15          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 10       | 2.15          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 13       | 2.15          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 15       | 2.15          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 7        | 2.15          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 7        | 2.15          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 9        | 2.15          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 9        | 2.15          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 11       | 2.15          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 11       | 2.15          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 11       | 2.15          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 11       | 2.15          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 11       | 2.15          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 11       | 2.15          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2 | 1        | 2.15          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2 | 20       | 2.15          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 11       | 2.15          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2 | 4        | 2.15          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3 | 4        | 2.15          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2 | 4        | 2.15          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3 | 4        | 2.15          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 14       | 2.15          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 14       | 2.15          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 14       | 2.15          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 14       | 2.15          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 1        | 2.15          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 1        | 2.15          |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2 | 1        | 2.15          |
| (1,4194) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HA  | 14       | 2.15          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2 | 1        | 2.15          |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3 | 1        | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 13       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 13       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 18       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 18       | 2.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 19       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 19       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 20       | 2.15          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 20       | 2.15          |
| (1,3886) | 1:A:19:CYS:HB3 | 1:A:21:SER:H   | 12       | 2.15          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 10       | 2.15          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 2        | 2.15          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 6        | 2.15          |
| (1,3610) | 1:A:17:GLY:HA2 | 1:A:29:GLY:H   | 16       | 2.15          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 12       | 2.15          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 12       | 2.15          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 15       | 2.15          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 15       | 2.15          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 8        | 2.15          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 4        | 2.15          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 4        | 2.15          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB2 | 5        | 2.15          |
| (1,1958) | 1:A:7:CYS:H    | 1:A:26:CYS:HB3 | 5        | 2.15          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 2        | 2.15          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 2        | 2.15          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB2 | 2        | 2.15          |
| (1,1530) | 1:A:6:GLN:H    | 1:A:25:TYR:HB3 | 2        | 2.15          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 7        | 2.15          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 10       | 2.15          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 16       | 2.15          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 2        | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 6        | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 8        | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 10       | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 13       | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 17       | 2.14          |
| (1,995)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HB2  | 19       | 2.14          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 2        | 2.14          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 6        | 2.14          |
| (1,675)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HB2  | 8        | 2.14          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 5        | 2.14          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 5        | 2.14          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 5        | 2.14          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 5        | 2.14          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 13       | 2.14          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 13       | 2.14          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 20       | 2.14          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 20       | 2.14          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 8        | 2.14          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 12       | 2.14          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 14       | 2.14          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD2 | 3        | 2.14          |
| (1,4840) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HD3 | 3        | 2.14          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 15       | 2.14          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 20       | 2.14          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2 | 6        | 2.14          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 3        | 2.14          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 3        | 2.14          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 3        | 2.14          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 3        | 2.14          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 11       | 2.14          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 11       | 2.14          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 11       | 2.14          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 11       | 2.14          |
| (1,4320) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HA  | 15       | 2.14          |
| (1,4157) | 1:A:22:GLN:HB2  | 1:A:23:TYR:HA  | 6        | 2.14          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 2        | 2.14          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 2        | 2.14          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 16       | 2.14          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 16       | 2.14          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 14       | 2.14          |
| (1,3137) | 1:A:13:GLY:HA2  | 1:A:20:CYS:H   | 12       | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB2 | 1        | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB3 | 1        | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB2 | 3        | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB3 | 3        | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB2 | 10       | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB3 | 10       | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB2 | 11       | 2.14          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB3 | 11       | 2.14          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 6        | 2.14          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 6        | 2.14          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 14       | 2.14          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 14       | 2.14          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 10       | 2.14          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 11       | 2.14          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 11       | 2.14          |
| (1,1247) | 1:A:4:ASN:HD21  | 1:A:6:GLN:H    | 13       | 2.14          |
| (1,957)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HH2 | 1        | 2.13          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,675)  | 1:A:2:GLY:HA2   | 1:A:3:PRO:HB2  | 3        | 2.13          |
| (1,675)  | 1:A:2:GLY:HA2   | 1:A:3:PRO:HB2  | 4        | 2.13          |
| (1,675)  | 1:A:2:GLY:HA2   | 1:A:3:PRO:HB2  | 11       | 2.13          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 6        | 2.13          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 6        | 2.13          |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H   | 8        | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 1        | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 3        | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 5        | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 6        | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 11       | 2.13          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 17       | 2.13          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 6        | 2.13          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG2 | 5        | 2.13          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG3 | 5        | 2.13          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3 | 10       | 2.13          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 1        | 2.13          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 2        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 1        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 1        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 1        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 1        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 4        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 4        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 4        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 4        | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 13       | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 13       | 2.13          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 13       | 2.13          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 13       | 2.13          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB1 | 14       | 2.13          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB2 | 14       | 2.13          |
| (1,4299) | 1:A:22:GLN:HE21 | 1:A:34:ALA:HB3 | 14       | 2.13          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 14       | 2.13          |
| (1,4215) | 1:A:22:GLN:HB2  | 1:A:35:HIS:HE1 | 7        | 2.13          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 4        | 2.13          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 4        | 2.13          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 5        | 2.13          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 4        | 2.13          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 8        | 2.13          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 8        | 2.13          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 8        | 2.13          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 9        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 1        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 1        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 3        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 3        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 4        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 4        | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 11       | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 11       | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 13       | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 13       | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 15       | 2.13          |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 15       | 2.13          |
| (1,1766) | 1:A:6:GLN:HG3  | 1:A:25:TYR:HB3 | 2        | 2.13          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 4        | 2.13          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 6        | 2.12          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 9        | 2.12          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 4        | 2.12          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 4        | 2.12          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 1        | 2.12          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 1        | 2.12          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 2        | 2.12          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 2        | 2.12          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 2        | 2.12          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 11       | 2.12          |
| (1,4852) | 1:A:31:LYS:HA  | 1:A:32:TYR:HB2 | 9        | 2.12          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 11       | 2.12          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 11       | 2.12          |
| (1,4825) | 1:A:30:PRO:HG2 | 1:A:34:ALA:H   | 15       | 2.12          |
| (1,4825) | 1:A:30:PRO:HG3 | 1:A:34:ALA:H   | 15       | 2.12          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 7        | 2.12          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 7        | 2.12          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 7        | 2.12          |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 4        | 2.12          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 10       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 10       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 10       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 10       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 20       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 20       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 20       | 2.12          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 20       | 2.12          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG2 | 16       | 2.12          |
| (1,4322) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HG3 | 16       | 2.12          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1 | 10       | 2.12          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2 | 10       | 2.12          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2 | 17       | 2.12          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3 | 17       | 2.12          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 20       | 2.12          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 20       | 2.12          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 3        | 2.12          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 6        | 2.12          |
| (1,3171) | 1:A:14:CYS:H    | 1:A:18:LEU:HB3 | 17       | 2.12          |
| (1,3137) | 1:A:13:GLY:HA2  | 1:A:20:CYS:H   | 20       | 2.12          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 7        | 2.12          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB2  | 4        | 2.12          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB3  | 4        | 2.12          |
| (1,675)  | 1:A:2:GLY:HA2   | 1:A:3:PRO:HB2  | 14       | 2.11          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG2  | 12       | 2.11          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG2  | 12       | 2.11          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3  | 12       | 2.11          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3  | 12       | 2.11          |
| (1,4937) | 1:A:33:CYS:H    | 1:A:35:HIS:HB3 | 1        | 2.11          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 7        | 2.11          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 7        | 2.11          |
| (1,4852) | 1:A:31:LYS:HA   | 1:A:32:TYR:HB2 | 7        | 2.11          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 1        | 2.11          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG2 | 16       | 2.11          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG3 | 16       | 2.11          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 13       | 2.11          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 13       | 2.11          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ1 | 5        | 2.11          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ2 | 5        | 2.11          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ3 | 5        | 2.11          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ1 | 5        | 2.11          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ2 | 5        | 2.11          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ3 | 5        | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 6        | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 6        | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 6        | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA3 | 6        | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA2 | 12       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2  | 1:A:24:GLY:HA2 | 12       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1  | 1:A:24:GLY:HA3 | 12       | 2.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 12       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 15       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 15       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 15       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 15       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 18       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 18       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 18       | 2.11          |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 18       | 2.11          |
| (1,4162) | 1:A:22:GLN:HG2 | 1:A:25:TYR:H   | 10       | 2.11          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 5        | 2.11          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 5        | 2.11          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 5        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 1        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 2        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 5        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 7        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 8        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 9        | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 10       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 11       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 12       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 13       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 14       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 15       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 16       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 18       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 19       | 2.11          |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 20       | 2.11          |
| (1,3886) | 1:A:19:CYS:HB3 | 1:A:21:SER:H   | 2        | 2.11          |
| (1,3886) | 1:A:19:CYS:HB3 | 1:A:21:SER:H   | 13       | 2.11          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 4        | 2.11          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2 | 17       | 2.11          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 17       | 2.11          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 1        | 2.11          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 1        | 2.11          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 8        | 2.11          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 8        | 2.11          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 7        | 2.11          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 16       | 2.11          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 18       | 2.11          |
| (1,3137) | 1:A:13:GLY:HA2 | 1:A:20:CYS:H   | 19       | 2.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 2        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 2        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 3        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 3        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 5        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 5        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB2  | 6        | 2.11          |
| (1,1503) | 1:A:6:GLN:H    | 1:A:7:CYS:HB3  | 6        | 2.11          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 2        | 2.11          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 5        | 2.11          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 6        | 2.11          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H    | 19       | 2.1           |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H    | 19       | 2.1           |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 4        | 2.1           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 6        | 2.1           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 15       | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 8        | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2 | 8        | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 12       | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2 | 12       | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 14       | 2.1           |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE2 | 14       | 2.1           |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 13       | 2.1           |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 13       | 2.1           |
| (1,4825) | 1:A:30:PRO:HG2 | 1:A:34:ALA:H   | 2        | 2.1           |
| (1,4825) | 1:A:30:PRO:HG3 | 1:A:34:ALA:H   | 2        | 2.1           |
| (1,4825) | 1:A:30:PRO:HG2 | 1:A:34:ALA:H   | 8        | 2.1           |
| (1,4825) | 1:A:30:PRO:HG3 | 1:A:34:ALA:H   | 8        | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 8        | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 9        | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 12       | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 13       | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 14       | 2.1           |
| (1,4713) | 1:A:27:GLY:HA3 | 1:A:32:TYR:HA  | 15       | 2.1           |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 5        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 5        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 5        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 5        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA2 | 9        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA2 | 9        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD1 | 1:A:24:GLY:HA3 | 9        | 2.1           |
| (1,4393) | 1:A:23:TYR:HD2 | 1:A:24:GLY:HA3 | 9        | 2.1           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1 | 9        | 2.1           |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2 | 9        | 2.1           |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 17       | 2.1           |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 17       | 2.1           |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 4        | 2.1           |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 4        | 2.1           |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 7        | 2.1           |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 7        | 2.1           |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB2 | 6        | 2.1           |
| (1,4067) | 1:A:21:SER:HG  | 1:A:22:GLN:HB3 | 6        | 2.1           |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 2        | 2.1           |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 3        | 2.1           |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 3        | 2.1           |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 4        | 2.1           |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 6        | 2.1           |
| (1,4011) | 1:A:21:SER:H   | 1:A:22:GLN:HA  | 17       | 2.1           |
| (1,3886) | 1:A:19:CYS:HB3 | 1:A:21:SER:H   | 5        | 2.1           |
| (1,3886) | 1:A:19:CYS:HB3 | 1:A:21:SER:H   | 10       | 2.1           |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2 | 5        | 2.1           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB2 | 15       | 2.1           |
| (1,3644) | 1:A:18:LEU:H   | 1:A:19:CYS:HB3 | 15       | 2.1           |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2 | 10       | 2.1           |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 10       | 2.1           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 5        | 2.1           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 5        | 2.1           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 5        | 2.1           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 5        | 2.1           |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 2        | 2.1           |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 4        | 2.1           |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 5        | 2.1           |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 6        | 2.1           |
| (1,2194) | 1:A:9:PRO:HB2  | 1:A:11:TRP:HD1 | 10       | 2.1           |
| (1,2006) | 1:A:7:CYS:HB2  | 1:A:27:GLY:H   | 17       | 2.1           |
| (1,2006) | 1:A:7:CYS:HB3  | 1:A:27:GLY:H   | 17       | 2.1           |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 8        | 2.1           |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 8        | 2.1           |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB2 | 12       | 2.1           |
| (1,1943) | 1:A:7:CYS:H    | 1:A:20:CYS:HB3 | 12       | 2.1           |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 3        | 2.09          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 4        | 2.09          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 5        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA  | 1:A:32:TYR:HE1 | 2        | 2.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 2        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 3        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 3        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 4        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 4        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 5        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 5        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 6        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 6        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 9        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 9        | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 13       | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 13       | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 15       | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 15       | 2.09          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG2 | 2        | 2.09          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG3 | 2        | 2.09          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 4        | 2.09          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 4        | 2.09          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 12       | 2.09          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 12       | 2.09          |
| (1,4816) | 1:A:30:PRO:HB3  | 1:A:35:HIS:HB2 | 14       | 2.09          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3 | 12       | 2.09          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 7        | 2.09          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 16       | 2.09          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2 | 6        | 2.09          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3 | 6        | 2.09          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1 | 16       | 2.09          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2 | 16       | 2.09          |
| (1,4162) | 1:A:22:GLN:HG2  | 1:A:25:TYR:H   | 15       | 2.09          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 18       | 2.09          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 18       | 2.09          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 3        | 2.09          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 3        | 2.09          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 6        | 2.09          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 6        | 2.09          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 4        | 2.09          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 4        | 2.09          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 14       | 2.09          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 14       | 2.09          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 17       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 12       | 2.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 12       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 12       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 15       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 15       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 15       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 19       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 19       | 2.09          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 19       | 2.09          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 2        | 2.09          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 2        | 2.09          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 4        | 2.09          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 4        | 2.09          |
| (1,3419) | 1:A:15:ARG:HE   | 1:A:16:GLY:H   | 17       | 2.09          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H   | 1        | 2.09          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H   | 1        | 2.09          |
| (1,3357) | 1:A:15:ARG:HG2  | 1:A:16:GLY:HA2 | 20       | 2.09          |
| (1,3357) | 1:A:15:ARG:HG3  | 1:A:16:GLY:HA2 | 20       | 2.09          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 12       | 2.09          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 3        | 2.09          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 15       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 7        | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 7        | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 16       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 16       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 18       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 18       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 19       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 19       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 20       | 2.09          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 20       | 2.09          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 8        | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 1        | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 1        | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 9        | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 9        | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 12       | 2.09          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 12       | 2.09          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB2  | 10       | 2.09          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB3  | 10       | 2.09          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 18       | 2.09          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 19       | 2.09          |
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG2  | 14       | 2.09          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG3  | 14       | 2.09          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 1        | 2.08          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 1        | 2.08          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 11       | 2.08          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 11       | 2.08          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE1 | 17       | 2.08          |
| (1,4853) | 1:A:31:LYS:HA   | 1:A:32:TYR:HE2 | 17       | 2.08          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG2 | 4        | 2.08          |
| (1,4831) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HG3 | 4        | 2.08          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 14       | 2.08          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 14       | 2.08          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 17       | 2.08          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 17       | 2.08          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 17       | 2.08          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 17       | 2.08          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 16       | 2.08          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 16       | 2.08          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2 | 14       | 2.08          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3 | 14       | 2.08          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 3        | 2.08          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 10       | 2.08          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 15       | 2.08          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 14       | 2.08          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 14       | 2.08          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 5        | 2.08          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 5        | 2.08          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 4        | 2.08          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 4        | 2.08          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 6        | 2.08          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 8        | 2.08          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 15       | 2.08          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 16       | 2.08          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 16       | 2.08          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 16       | 2.08          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 3        | 2.08          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 3        | 2.08          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 5        | 2.08          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 5        | 2.08          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 9        | 2.08          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 17       | 2.08          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB2 | 17       | 2.08          |
| (1,1958) | 1:A:7:CYS:H     | 1:A:26:CYS:HB3 | 17       | 2.08          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB2 | 9        | 2.08          |
| (1,1943) | 1:A:7:CYS:H     | 1:A:20:CYS:HB3 | 9        | 2.08          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 15       | 2.08          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 15       | 2.08          |
| (1,1551) | 1:A:6:GLN:HA    | 1:A:11:TRP:HD1 | 13       | 2.08          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 7        | 2.08          |
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG2  | 3        | 2.08          |
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG3  | 3        | 2.08          |
| (1,957)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HH2 | 15       | 2.07          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 7        | 2.07          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 7        | 2.07          |
| (1,4938) | 1:A:33:CYS:HA   | 1:A:35:HIS:HE1 | 1        | 2.07          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H   | 17       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 10       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 10       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 18       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 18       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 19       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 19       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 20       | 2.07          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 20       | 2.07          |
| (1,4246) | 1:A:22:GLN:HG3  | 1:A:23:TYR:HB3 | 3        | 2.07          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 16       | 2.07          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2 | 20       | 2.07          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3 | 20       | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 1        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 1        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 8        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 8        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 9        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 9        | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 15       | 2.07          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 15       | 2.07          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 2        | 2.07          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 2        | 2.07          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 4        | 2.07          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 10       | 2.07          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 10       | 2.07          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 10       | 2.07          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 8        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 1        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 1        | 2.07          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 1        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 6        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 6        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 6        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 9        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 9        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 9        | 2.07          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 20       | 2.07          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 20       | 2.07          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 20       | 2.07          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 6        | 2.07          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 6        | 2.07          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 20       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 1        | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 7        | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 8        | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 12       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 14       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 16       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 18       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 19       | 2.07          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 20       | 2.07          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB2 | 17       | 2.07          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB2 | 17       | 2.07          |
| (1,1991) | 1:A:7:CYS:HB2   | 1:A:18:LEU:HB3 | 17       | 2.07          |
| (1,1991) | 1:A:7:CYS:HB3   | 1:A:18:LEU:HB3 | 17       | 2.07          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB2  | 14       | 2.07          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB3  | 14       | 2.07          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 7        | 2.06          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 7        | 2.06          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 13       | 2.06          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 13       | 2.06          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H   | 3        | 2.06          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 3        | 2.06          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 3        | 2.06          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 3        | 2.06          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 14       | 2.06          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 19       | 2.06          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 9        | 2.06          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 13       | 2.06          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 13       | 2.06          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 11       | 2.06          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 11       | 2.06          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 13       | 2.06          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 13       | 2.06          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 2        | 2.06          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 2        | 2.06          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 9        | 2.06          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 1        | 2.06          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 11       | 2.06          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 11       | 2.06          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 11       | 2.06          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 11       | 2.06          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 15       | 2.06          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 17       | 2.06          |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 17       | 2.06          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 17       | 2.06          |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3 | 17       | 2.06          |
| (1,2194) | 1:A:9:PRO:HB2   | 1:A:11:TRP:HD1 | 11       | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 2        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 3        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 4        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 5        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 6        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 9        | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 10       | 2.06          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H   | 20       | 2.06          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 17       | 2.06          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 1        | 2.06          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 15       | 2.06          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 16       | 2.06          |
| (1,602)  | 1:A:2:GLY:H     | 1:A:7:CYS:H    | 3        | 2.05          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 5        | 2.05          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 5        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 2        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 2        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 4        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 4        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 8        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 8        | 2.05          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 15       | 2.05          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 15       | 2.05          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB2 | 16       | 2.05          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB2 | 16       | 2.05          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB2  | 16       | 2.05          |
| (1,4913) | 1:A:31:LYS:HZ1  | 1:A:35:HIS:HB3  | 16       | 2.05          |
| (1,4913) | 1:A:31:LYS:HZ2  | 1:A:35:HIS:HB3  | 16       | 2.05          |
| (1,4913) | 1:A:31:LYS:HZ3  | 1:A:35:HIS:HB3  | 16       | 2.05          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H    | 1        | 2.05          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H    | 1        | 2.05          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H    | 6        | 2.05          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H    | 6        | 2.05          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H    | 11       | 2.05          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H    | 11       | 2.05          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 17       | 2.05          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA   | 19       | 2.05          |
| (1,4214) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HE1  | 9        | 2.05          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2  | 14       | 2.05          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3  | 14       | 2.05          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 19       | 2.05          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 19       | 2.05          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H    | 1        | 2.05          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2  | 12       | 2.05          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3  | 12       | 2.05          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H    | 4        | 2.05          |
| (1,3743) | 1:A:18:LEU:HG   | 1:A:27:GLY:HA2  | 11       | 2.05          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H    | 1        | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 1        | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 7        | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 8        | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 11       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 12       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 13       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 14       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 15       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 16       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 18       | 2.05          |
| (1,2193) | 1:A:9:PRO:HB2   | 1:A:11:TRP:H    | 19       | 2.05          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3   | 14       | 2.05          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG2   | 10       | 2.04          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG2   | 10       | 2.04          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3   | 10       | 2.04          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3   | 10       | 2.04          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG2   | 18       | 2.04          |
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG2   | 18       | 2.04          |
| (1,540)  | 1:A:1:SER:HB2   | 1:A:6:GLN:HG3   | 18       | 2.04          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,540)  | 1:A:1:SER:HB3   | 1:A:6:GLN:HG3  | 18       | 2.04          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 12       | 2.04          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 12       | 2.04          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 12       | 2.04          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 12       | 2.04          |
| (1,4927) | 1:A:32:TYR:HD1  | 1:A:34:ALA:H   | 14       | 2.04          |
| (1,4927) | 1:A:32:TYR:HD2  | 1:A:34:ALA:H   | 14       | 2.04          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 14       | 2.04          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 18       | 2.04          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 19       | 2.04          |
| (1,4713) | 1:A:27:GLY:HA3  | 1:A:32:TYR:HA  | 20       | 2.04          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 5        | 2.04          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 5        | 2.04          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG2 | 20       | 2.04          |
| (1,4122) | 1:A:22:GLN:H    | 1:A:31:LYS:HG3 | 20       | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 7        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 7        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 8        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 8        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 9        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 9        | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 18       | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 18       | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB2 | 19       | 2.04          |
| (1,4067) | 1:A:21:SER:HG   | 1:A:22:GLN:HB3 | 19       | 2.04          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 3        | 2.04          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 2        | 2.04          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 11       | 2.04          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 17       | 2.04          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 7        | 2.04          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 7        | 2.04          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 7        | 2.04          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 9        | 2.04          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 13       | 2.04          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 15       | 2.04          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 7        | 2.04          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 19       | 2.04          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 8        | 2.04          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 20       | 2.04          |
| (1,602)  | 1:A:2:GLY:H     | 1:A:7:CYS:H    | 14       | 2.03          |
| (1,4941) | 1:A:34:ALA:HB1  | 1:A:35:HIS:HB3 | 6        | 2.03          |
| (1,4941) | 1:A:34:ALA:HB2  | 1:A:35:HIS:HB3 | 6        | 2.03          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4941) | 1:A:34:ALA:HB3  | 1:A:35:HIS:HB3 | 6        | 2.03          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 5        | 2.03          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 5        | 2.03          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 9        | 2.03          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 9        | 2.03          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 10       | 2.03          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 10       | 2.03          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2 | 17       | 2.03          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1 | 20       | 2.03          |
| (1,4155) | 1:A:22:GLN:HA   | 1:A:35:HIS:HE1 | 19       | 2.03          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 11       | 2.03          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 11       | 2.03          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 11       | 2.03          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 6        | 2.03          |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H   | 18       | 2.03          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 1        | 2.03          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 17       | 2.03          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 18       | 2.03          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 19       | 2.03          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 20       | 2.03          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 20       | 2.03          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 18       | 2.03          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 18       | 2.03          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 18       | 2.03          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 8        | 2.03          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 16       | 2.03          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 18       | 2.03          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 19       | 2.03          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 12       | 2.03          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 18       | 2.03          |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2 | 14       | 2.02          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 13       | 2.02          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 13       | 2.02          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 12       | 2.02          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 12       | 2.02          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 4        | 2.02          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 13       | 2.02          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 15       | 2.02          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 9        | 2.02          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 18       | 2.02          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 19       | 2.02          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 2        | 2.02          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 2        | 2.02          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 2        | 2.02          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 7        | 2.02          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 11       | 2.02          |
| (1,3419) | 1:A:15:ARG:HE   | 1:A:16:GLY:H   | 11       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 1        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 2        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 3        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 4        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 5        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 6        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 7        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 8        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 9        | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 10       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 11       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 12       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 13       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 14       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 15       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 16       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 18       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 19       | 2.02          |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 20       | 2.02          |
| (1,1767) | 1:A:6:GLN:HG3   | 1:A:26:CYS:H   | 13       | 2.02          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 20       | 2.02          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 8        | 2.02          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 8        | 2.02          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 13       | 2.02          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 13       | 2.02          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 8        | 2.02          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 16       | 2.02          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 20       | 2.02          |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 6        | 2.01          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 6        | 2.01          |
| (1,4941) | 1:A:34:ALA:HB1  | 1:A:35:HIS:HB3 | 20       | 2.01          |
| (1,4941) | 1:A:34:ALA:HB2  | 1:A:35:HIS:HB3 | 20       | 2.01          |
| (1,4941) | 1:A:34:ALA:HB3  | 1:A:35:HIS:HB3 | 20       | 2.01          |
| (1,4903) | 1:A:31:LYS:HD2  | 1:A:35:HIS:HE1 | 20       | 2.01          |
| (1,4903) | 1:A:31:LYS:HD3  | 1:A:35:HIS:HE1 | 20       | 2.01          |
| (1,4797) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HG3 | 10       | 2.01          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 7        | 2.01          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 9        | 2.01          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 6        | 2.01          |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 6        | 2.01          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2 | 3        | 2.01          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 7        | 2.01          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 3        | 2.01          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 4        | 2.01          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2 | 2        | 2.01          |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3 | 2        | 2.01          |
| (1,3927) | 1:A:20:CYS:H    | 1:A:26:CYS:HB2 | 14       | 2.01          |
| (1,3927) | 1:A:20:CYS:H    | 1:A:26:CYS:HB3 | 14       | 2.01          |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 16       | 2.01          |
| (1,3743) | 1:A:18:LEU:HG   | 1:A:27:GLY:HA2 | 2        | 2.01          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 15       | 2.01          |
| (1,3691) | 1:A:18:LEU:HB2  | 1:A:27:GLY:HA2 | 17       | 2.01          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 1        | 2.01          |
| (1,1766) | 1:A:6:GLN:HG3   | 1:A:25:TYR:HB3 | 11       | 2.01          |
| (1,1508) | 1:A:6:GLN:H     | 1:A:11:TRP:HE3 | 11       | 2.01          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3  | 12       | 2.01          |
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG2  | 4        | 2.01          |
| (1,1318) | 1:A:4:ASN:HD22  | 1:A:6:GLN:HG3  | 4        | 2.01          |
| (1,957)  | 1:A:3:PRO:HD2   | 1:A:11:TRP:HH2 | 11       | 2.0           |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2 | 13       | 2.0           |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 3        | 2.0           |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 3        | 2.0           |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 16       | 2.0           |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 16       | 2.0           |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 19       | 2.0           |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 10       | 2.0           |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 16       | 2.0           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE2 | 8        | 2.0           |
| (1,4781) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HE3 | 8        | 2.0           |
| (1,4244) | 1:A:22:GLN:HB3  | 1:A:35:HIS:HB3 | 20       | 2.0           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 1        | 2.0           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 1        | 2.0           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 3        | 2.0           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 3        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 3        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 3        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 4        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 4        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 6        | 2.0           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 6        | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 10       | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 10       | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 14       | 2.0           |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 14       | 2.0           |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 6        | 2.0           |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 12       | 2.0           |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 12       | 2.0           |
| (1,3886) | 1:A:19:CYS:HB3  | 1:A:21:SER:H   | 7        | 2.0           |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 13       | 2.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 6        | 2.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 6        | 2.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 6        | 2.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3 | 6        | 2.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2 | 14       | 2.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2 | 14       | 2.0           |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3 | 14       | 2.0           |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3 | 14       | 2.0           |
| (1,3147) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HE  | 18       | 2.0           |
| (1,2104) | 1:A:8:GLY:HA3   | 1:A:9:PRO:HB3  | 17       | 2.0           |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2 | 5        | 2.0           |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 10       | 1.99          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 10       | 1.99          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 10       | 1.99          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 10       | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB2 | 4        | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB2 | 4        | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB2 | 4        | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ1  | 1:A:32:TYR:HB3 | 4        | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ2  | 1:A:32:TYR:HB3 | 4        | 1.99          |
| (1,4908) | 1:A:31:LYS:HZ3  | 1:A:32:TYR:HB3 | 4        | 1.99          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 18       | 1.99          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 18       | 1.99          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 19       | 1.99          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 19       | 1.99          |
| (1,4825) | 1:A:30:PRO:HG2  | 1:A:34:ALA:H   | 20       | 1.99          |
| (1,4825) | 1:A:30:PRO:HG3  | 1:A:34:ALA:H   | 20       | 1.99          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 5        | 1.99          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA  | 9        | 1.99          |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 19       | 1.99          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 7        | 1.99          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 6        | 1.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2  | 6        | 1.99          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1  | 11       | 1.99          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2  | 11       | 1.99          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2  | 2        | 1.99          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3  | 2        | 1.99          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2  | 13       | 1.99          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3  | 13       | 1.99          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 9        | 1.99          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 7        | 1.99          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 18       | 1.99          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 19       | 1.99          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H    | 20       | 1.99          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H    | 12       | 1.99          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 20       | 1.99          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 20       | 1.99          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2  | 2        | 1.99          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2  | 10       | 1.99          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3   | 13       | 1.99          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2   | 5        | 1.99          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3   | 5        | 1.99          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3  | 5        | 1.98          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3  | 5        | 1.98          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3  | 17       | 1.98          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3  | 17       | 1.98          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 5        | 1.98          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 5        | 1.98          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 5        | 1.98          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 18       | 1.98          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 18       | 1.98          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 18       | 1.98          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 19       | 1.98          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 19       | 1.98          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2  | 2        | 1.98          |
| (1,4792) | 1:A:30:PRO:HA  | 1:A:31:LYS:HB2  | 18       | 1.98          |
| (1,4771) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HB2  | 12       | 1.98          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 1        | 1.98          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 1        | 1.98          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H    | 2        | 1.98          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2  | 14       | 1.98          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3  | 14       | 1.98          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 3        | 1.98          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 3        | 1.98          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 8        | 1.98          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 8        | 1.98          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 15       | 1.98          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 15       | 1.98          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H    | 17       | 1.98          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3  | 5        | 1.98          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3  | 5        | 1.98          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3  | 5        | 1.98          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H    | 20       | 1.98          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2  | 15       | 1.98          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3  | 15       | 1.98          |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2  | 6        | 1.98          |
| (1,1453) | 1:A:5:GLY:HA2   | 1:A:6:GLN:HG3   | 17       | 1.98          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2  | 14       | 1.98          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3  | 14       | 1.98          |
| (1,4808) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HE1  | 12       | 1.97          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 4        | 1.97          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 8        | 1.97          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 11       | 1.97          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2  | 12       | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 2        | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 4        | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 5        | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 9        | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 13       | 1.97          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2  | 15       | 1.97          |
| (1,4771) | 1:A:29:GLY:HA2  | 1:A:31:LYS:HB2  | 10       | 1.97          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2  | 3        | 1.97          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3  | 3        | 1.97          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE21 | 16       | 1.97          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE22 | 16       | 1.97          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1  | 15       | 1.97          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2  | 15       | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 1        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 1        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 5        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 5        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 7        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 7        | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2  | 11       | 1.97          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3  | 11       | 1.97          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2  | 16       | 1.97          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 5        | 1.97          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H   | 18       | 1.97          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE  | 12       | 1.97          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 3        | 1.97          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 4        | 1.97          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 4        | 1.97          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 1        | 1.97          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2 | 17       | 1.97          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3 | 17       | 1.97          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 10       | 1.97          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 10       | 1.97          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 17       | 1.97          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 17       | 1.97          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 6        | 1.97          |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 6        | 1.97          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2 | 14       | 1.96          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3 | 14       | 1.96          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2 | 14       | 1.96          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3 | 14       | 1.96          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 8        | 1.96          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 8        | 1.96          |
| (1,4937) | 1:A:33:CYS:H   | 1:A:35:HIS:HB3 | 19       | 1.96          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 16       | 1.96          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 16       | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 1        | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 3        | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 6        | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 8        | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 11       | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 17       | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 18       | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 19       | 1.96          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 20       | 1.96          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 6        | 1.96          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 6        | 1.96          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 11       | 1.96          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1 | 16       | 1.96          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2 | 16       | 1.96          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2 | 9        | 1.96          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3 | 9        | 1.96          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 2        | 1.96          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 13       | 1.96          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 13       | 1.96          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 19       | 1.96          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 19       | 1.96          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 11       | 1.96          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 10       | 1.96          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 19       | 1.96          |
| (1,3357) | 1:A:15:ARG:HG2  | 1:A:16:GLY:HA2 | 19       | 1.96          |
| (1,3357) | 1:A:15:ARG:HG3  | 1:A:16:GLY:HA2 | 19       | 1.96          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H   | 15       | 1.96          |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2 | 14       | 1.96          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 6        | 1.96          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 6        | 1.96          |
| (1,1439) | 1:A:5:GLY:H     | 1:A:26:CYS:H   | 11       | 1.96          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB2  | 6        | 1.96          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB3  | 6        | 1.96          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE1 | 3        | 1.96          |
| (1,1091) | 1:A:4:ASN:H     | 1:A:25:TYR:HE2 | 3        | 1.96          |
| (1,602)  | 1:A:2:GLY:H     | 1:A:7:CYS:H    | 6        | 1.95          |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 11       | 1.95          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 11       | 1.95          |
| (1,536)  | 1:A:1:SER:HB2   | 1:A:4:ASN:H    | 18       | 1.95          |
| (1,536)  | 1:A:1:SER:HB3   | 1:A:4:ASN:H    | 18       | 1.95          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 18       | 1.95          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 3        | 1.95          |
| (1,4812) | 1:A:30:PRO:HB3  | 1:A:33:CYS:H   | 12       | 1.95          |
| (1,4803) | 1:A:30:PRO:HB2  | 1:A:33:CYS:H   | 12       | 1.95          |
| (1,4792) | 1:A:30:PRO:HA   | 1:A:31:LYS:HB2 | 13       | 1.95          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2 | 12       | 1.95          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2 | 14       | 1.95          |
| (1,4787) | 1:A:29:GLY:HA3  | 1:A:33:CYS:HB2 | 16       | 1.95          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG2 | 17       | 1.95          |
| (1,4778) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HG3 | 17       | 1.95          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE2 | 10       | 1.95          |
| (1,4325) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HE3 | 10       | 1.95          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 20       | 1.95          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 20       | 1.95          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 1        | 1.95          |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 13       | 1.95          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 2        | 1.95          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 1        | 1.95          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB3 | 1        | 1.95          |
| (1,3492) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HB2 | 13       | 1.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3 | 13       | 1.95          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 7        | 1.95          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 16       | 1.95          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 18       | 1.95          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 19       | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 4        | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 7        | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 8        | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 16       | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 18       | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 19       | 1.95          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 20       | 1.95          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 3        | 1.95          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 3        | 1.95          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 4        | 1.95          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 2        | 1.94          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2 | 15       | 1.94          |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3 | 15       | 1.94          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 17       | 1.94          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 18       | 1.94          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 18       | 1.94          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 8        | 1.94          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 14       | 1.94          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 8        | 1.94          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 14       | 1.94          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 15       | 1.94          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 2        | 1.94          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 2        | 1.94          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 12       | 1.94          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 19       | 1.94          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1 | 12       | 1.94          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2 | 12       | 1.94          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 5        | 1.94          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 13       | 1.94          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 17       | 1.94          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 17       | 1.94          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 18       | 1.94          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 18       | 1.94          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2 | 14       | 1.94          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3 | 14       | 1.94          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG2 | 19       | 1.94          |
| (1,4051) | 1:A:21:SER:HB2 | 1:A:31:LYS:HG3 | 19       | 1.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD1 | 6        | 1.94          |
| (1,4021) | 1:A:21:SER:H   | 1:A:25:TYR:HD2 | 6        | 1.94          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 11       | 1.94          |
| (1,3906) | 1:A:19:CYS:HB3 | 1:A:34:ALA:H   | 7        | 1.94          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 5        | 1.94          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 5        | 1.94          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 15       | 1.94          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 9        | 1.94          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 11       | 1.94          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 12       | 1.94          |
| (1,1508) | 1:A:6:GLN:H    | 1:A:11:TRP:HE3 | 9        | 1.94          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 11       | 1.94          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3  | 15       | 1.94          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 1        | 1.94          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 3        | 1.94          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 10       | 1.94          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 13       | 1.93          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 13       | 1.93          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2  | 17       | 1.93          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2  | 17       | 1.93          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3  | 17       | 1.93          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3  | 17       | 1.93          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3 | 1        | 1.93          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3 | 1        | 1.93          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3 | 1        | 1.93          |
| (1,4929) | 1:A:32:TYR:HD1 | 1:A:35:HIS:HB3 | 20       | 1.93          |
| (1,4929) | 1:A:32:TYR:HD2 | 1:A:35:HIS:HB3 | 20       | 1.93          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 7        | 1.93          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 7        | 1.93          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 17       | 1.93          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 17       | 1.93          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 9        | 1.93          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 2        | 1.93          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 4        | 1.93          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 13       | 1.93          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 15       | 1.93          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 2        | 1.93          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 4        | 1.93          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 13       | 1.93          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 7        | 1.93          |
| (1,4787) | 1:A:29:GLY:HA3 | 1:A:33:CYS:HB2 | 10       | 1.93          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 5        | 1.93          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 5        | 1.93          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB2 | 17       | 1.93          |
| (1,4093) | 1:A:21:SER:HG   | 1:A:32:TYR:HB3 | 17       | 1.93          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 3        | 1.93          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 3        | 1.93          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD1 | 4        | 1.93          |
| (1,4021) | 1:A:21:SER:H    | 1:A:25:TYR:HD2 | 4        | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2 | 1        | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3 | 1        | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2 | 14       | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3 | 14       | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2 | 20       | 1.93          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3 | 20       | 1.93          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 1        | 1.93          |
| (1,3906) | 1:A:19:CYS:HB3  | 1:A:34:ALA:H   | 16       | 1.93          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 13       | 1.93          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 13       | 1.93          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 13       | 1.93          |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 8        | 1.93          |
| (1,1767) | 1:A:6:GLN:HG3   | 1:A:26:CYS:H   | 8        | 1.93          |
| (1,1767) | 1:A:6:GLN:HG3   | 1:A:26:CYS:H   | 9        | 1.93          |
| (1,1767) | 1:A:6:GLN:HG3   | 1:A:26:CYS:H   | 20       | 1.93          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 16       | 1.93          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 16       | 1.93          |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2 | 1        | 1.93          |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2 | 15       | 1.93          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 12       | 1.93          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 12       | 1.93          |
| (1,1439) | 1:A:5:GLY:H     | 1:A:26:CYS:H   | 13       | 1.93          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB2  | 2        | 1.93          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB3  | 2        | 1.93          |
| (1,1180) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HA   | 5        | 1.93          |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 2        | 1.92          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 2        | 1.92          |
| (1,4940) | 1:A:34:ALA:HA   | 1:A:35:HIS:HD2 | 18       | 1.92          |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H   | 18       | 1.92          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 7        | 1.92          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 8        | 1.92          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 8        | 1.92          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 9        | 1.92          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 9        | 1.92          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 13       | 1.92          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2  | 15       | 1.92          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H    | 1        | 1.92          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 3        | 1.92          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 4        | 1.92          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 16       | 1.92          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB2  | 11       | 1.92          |
| (1,3492) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HB3  | 11       | 1.92          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 7        | 1.92          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 7        | 1.92          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H    | 1        | 1.92          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 18       | 1.92          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 18       | 1.92          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 20       | 1.92          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 20       | 1.92          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 12       | 1.91          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 12       | 1.91          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H    | 9        | 1.91          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H    | 10       | 1.91          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 3        | 1.91          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 3        | 1.91          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1  | 14       | 1.91          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2  | 14       | 1.91          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 11       | 1.91          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 11       | 1.91          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H    | 15       | 1.91          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2  | 15       | 1.91          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 2        | 1.91          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 12       | 1.91          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 7        | 1.91          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 7        | 1.91          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 19       | 1.91          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 19       | 1.91          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 7        | 1.91          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 7        | 1.91          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 19       | 1.91          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 19       | 1.91          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2  | 2        | 1.91          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3  | 2        | 1.91          |
| (1,1453) | 1:A:5:GLY:HA2  | 1:A:6:GLN:HG3   | 9        | 1.91          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2   | 18       | 1.91          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3   | 18       | 1.91          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H    | 1        | 1.9           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 3        | 1.9           |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 5        | 1.9           |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 6        | 1.9           |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 7        | 1.9           |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 11       | 1.9           |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 17       | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 1        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 3        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 5        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 6        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 7        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 9        | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 11       | 1.9           |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 17       | 1.9           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 17       | 1.9           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 17       | 1.9           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 17       | 1.9           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 17       | 1.9           |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 14       | 1.9           |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 14       | 1.9           |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1 | 15       | 1.9           |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2 | 15       | 1.9           |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 16       | 1.9           |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 16       | 1.9           |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 3        | 1.9           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2 | 10       | 1.9           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2 | 10       | 1.9           |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3 | 10       | 1.9           |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3 | 10       | 1.9           |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 7        | 1.9           |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 7        | 1.9           |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 10       | 1.9           |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 10       | 1.9           |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 6        | 1.9           |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 12       | 1.9           |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 6        | 1.9           |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 10       | 1.9           |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE1 | 4        | 1.9           |
| (1,1091) | 1:A:4:ASN:H    | 1:A:25:TYR:HE2 | 4        | 1.9           |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H    | 17       | 1.89          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 14       | 1.89          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 14       | 1.89          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 15       | 1.89          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 15       | 1.89          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 8        | 1.89          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 8        | 1.89          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 10       | 1.89          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 17       | 1.89          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 10       | 1.89          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 10       | 1.89          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 7        | 1.89          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 7        | 1.89          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 15       | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 2        | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 2        | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 5        | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 5        | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 10       | 1.89          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 10       | 1.89          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 12       | 1.89          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 16       | 1.89          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H   | 6        | 1.89          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 18       | 1.89          |
| (1,1767) | 1:A:6:GLN:HG3  | 1:A:26:CYS:H   | 11       | 1.89          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 17       | 1.89          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 17       | 1.89          |
| (1,1626) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HZ2 | 13       | 1.89          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 13       | 1.89          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 13       | 1.89          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 19       | 1.89          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 19       | 1.89          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 14       | 1.89          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 19       | 1.89          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 19       | 1.89          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 12       | 1.88          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 11       | 1.88          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 1        | 1.88          |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 16       | 1.88          |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 12       | 1.88          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 2        | 1.88          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 5        | 1.88          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 8        | 1.88          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 16       | 1.88          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 16       | 1.88          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1 | 14       | 1.88          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2 | 14       | 1.88          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD1 | 20       | 1.88          |
| (1,4197) | 1:A:22:GLN:HB2  | 1:A:32:TYR:HD2 | 20       | 1.88          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 14       | 1.88          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 14       | 1.88          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1 | 7        | 1.88          |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2 | 7        | 1.88          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE1 | 16       | 1.88          |
| (1,4072) | 1:A:21:SER:HG   | 1:A:25:TYR:HE2 | 16       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 1        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 3        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 4        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 6        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 7        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 8        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 9        | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 11       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 13       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 15       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 16       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 19       | 1.88          |
| (1,4058) | 1:A:21:SER:HB3  | 1:A:26:CYS:H   | 20       | 1.88          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2 | 7        | 1.88          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3 | 7        | 1.88          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2 | 17       | 1.88          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3 | 17       | 1.88          |
| (1,3962) | 1:A:20:CYS:HB2  | 1:A:24:GLY:HA2 | 7        | 1.88          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 17       | 1.88          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 17       | 1.88          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 17       | 1.88          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 14       | 1.88          |
| (1,3088) | 1:A:13:GLY:H    | 1:A:15:ARG:HE  | 12       | 1.88          |
| (1,1626) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HZ2 | 17       | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 5        | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 5        | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 9        | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 9        | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 16       | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 16       | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 18       | 1.88          |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 18       | 1.88          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 9        | 1.88          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 15       | 1.88          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 1        | 1.88          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 1        | 1.88          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 8        | 1.88          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 8        | 1.88          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 7        | 1.87          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 19       | 1.87          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 20       | 1.87          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3 | 4        | 1.87          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3 | 4        | 1.87          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3 | 4        | 1.87          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 20       | 1.87          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 20       | 1.87          |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 11       | 1.87          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 12       | 1.87          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 12       | 1.87          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2 | 10       | 1.87          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 16       | 1.87          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 18       | 1.87          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 19       | 1.87          |
| (1,4803) | 1:A:30:PRO:HB2 | 1:A:33:CYS:H   | 20       | 1.87          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 11       | 1.87          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 11       | 1.87          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1 | 19       | 1.87          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 5        | 1.87          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 7        | 1.87          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 9        | 1.87          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H   | 10       | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 2        | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 5        | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 10       | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 12       | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 14       | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 17       | 1.87          |
| (1,4058) | 1:A:21:SER:HB3 | 1:A:26:CYS:H   | 18       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 8        | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 8        | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 9        | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 9        | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 13       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 13       | 1.87          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 15       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 15       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 18       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 18       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 19       | 1.87          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 19       | 1.87          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 9        | 1.87          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 14       | 1.87          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 18       | 1.87          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 19       | 1.87          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2 | 20       | 1.87          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2 | 6        | 1.87          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H   | 12       | 1.87          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 8        | 1.87          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 11       | 1.87          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 11       | 1.87          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 15       | 1.87          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 15       | 1.87          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2  | 9        | 1.87          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3  | 9        | 1.87          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 7        | 1.87          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 7        | 1.87          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 2        | 1.87          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 5        | 1.87          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2 | 16       | 1.86          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 15       | 1.86          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 13       | 1.86          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 3        | 1.86          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 3        | 1.86          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 13       | 1.86          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 13       | 1.86          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 13       | 1.86          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 13       | 1.86          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 13       | 1.86          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 13       | 1.86          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H   | 18       | 1.86          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 3        | 1.86          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 12       | 1.86          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 12       | 1.86          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 1        | 1.86          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 1        | 1.86          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 12       | 1.86          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 12       | 1.86          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2  | 11       | 1.86          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3  | 11       | 1.86          |
| (1,3962) | 1:A:20:CYS:HB2 | 1:A:24:GLY:HA2  | 8        | 1.86          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 5        | 1.86          |
| (1,3716) | 1:A:18:LEU:HB3 | 1:A:28:SER:H    | 10       | 1.86          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 16       | 1.86          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 7        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 3        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 3        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 3        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 3        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 3        | 1.86          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 3        | 1.86          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2  | 20       | 1.86          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3  | 20       | 1.86          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 4        | 1.86          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 4        | 1.86          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG2   | 15       | 1.86          |
| (1,1318) | 1:A:4:ASN:HD22 | 1:A:6:GLN:HG3   | 15       | 1.86          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2   | 12       | 1.86          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3   | 12       | 1.86          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 6        | 1.86          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 19       | 1.86          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2  | 8        | 1.85          |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2  | 18       | 1.85          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2  | 1        | 1.85          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H     | 5        | 1.85          |
| (1,602)  | 1:A:2:GLY:H    | 1:A:7:CYS:H     | 10       | 1.85          |
| (1,536)  | 1:A:1:SER:HB2  | 1:A:4:ASN:H     | 9        | 1.85          |
| (1,536)  | 1:A:1:SER:HB3  | 1:A:4:ASN:H     | 9        | 1.85          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2  | 4        | 1.85          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2  | 11       | 1.85          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2  | 18       | 1.85          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H    | 19       | 1.85          |
| (1,4812) | 1:A:30:PRO:HB3 | 1:A:33:CYS:H    | 20       | 1.85          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2  | 9        | 1.85          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3  | 9        | 1.85          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 8        | 1.85          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 8        | 1.85          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 9        | 1.85          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 9        | 1.85          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2 | 2        | 1.85          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2 | 2        | 1.85          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3 | 2        | 1.85          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3 | 2        | 1.85          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 13       | 1.85          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 13       | 1.85          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 12       | 1.85          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 12       | 1.85          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 5        | 1.85          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 5        | 1.85          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 8        | 1.85          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 14       | 1.85          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 3        | 1.85          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 3        | 1.85          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 6        | 1.85          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 18       | 1.85          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 19       | 1.85          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 20       | 1.85          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H   | 1        | 1.85          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H   | 13       | 1.85          |
| (1,3257) | 1:A:15:ARG:H   | 1:A:19:CYS:H   | 16       | 1.85          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2 | 3        | 1.85          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3 | 3        | 1.85          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 8        | 1.85          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 8        | 1.85          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 2        | 1.85          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 5        | 1.85          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 2        | 1.85          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 8        | 1.85          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 12       | 1.85          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 8        | 1.85          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 13       | 1.85          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 16       | 1.85          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 17       | 1.85          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 18       | 1.85          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 9        | 1.84          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 10       | 1.84          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 4        | 1.84          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 5        | 1.84          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 8        | 1.84          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 13       | 1.84          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 20       | 1.84          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2  | 20       | 1.84          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2  | 2        | 1.84          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3  | 2        | 1.84          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2  | 10       | 1.84          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3  | 10       | 1.84          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1  | 6        | 1.84          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2  | 6        | 1.84          |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H    | 12       | 1.84          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2  | 6        | 1.84          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3  | 6        | 1.84          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB2  | 12       | 1.84          |
| (1,4017) | 1:A:21:SER:H    | 1:A:23:TYR:HB3  | 12       | 1.84          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3  | 3        | 1.84          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3  | 3        | 1.84          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3  | 3        | 1.84          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 1        | 1.84          |
| (1,3257) | 1:A:15:ARG:H    | 1:A:19:CYS:H    | 11       | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 2        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 2        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 4        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 4        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 5        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 5        | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2  | 14       | 1.84          |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3  | 14       | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 6        | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 6        | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 6        | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 6        | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 6        | 1.84          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 6        | 1.84          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 1        | 1.84          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 1        | 1.84          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 11       | 1.84          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 11       | 1.84          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 13       | 1.84          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 13       | 1.84          |
| (1,1996) | 1:A:7:CYS:HB2   | 1:A:21:SER:HG   | 17       | 1.84          |
| (1,1996) | 1:A:7:CYS:HB3   | 1:A:21:SER:HG   | 17       | 1.84          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 3        | 1.84          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 3        | 1.84          |
| (1,1439) | 1:A:5:GLY:H     | 1:A:26:CYS:H    | 8        | 1.84          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 10       | 1.84          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 16       | 1.84          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 16       | 1.84          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 11       | 1.84          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 17       | 1.84          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 7        | 1.84          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 11       | 1.84          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 12       | 1.84          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 1        | 1.83          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 1        | 1.83          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 7        | 1.83          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 15       | 1.83          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 13       | 1.83          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 19       | 1.83          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 4        | 1.83          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 11       | 1.83          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 10       | 1.83          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 18       | 1.83          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 18       | 1.83          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 19       | 1.83          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 19       | 1.83          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 4        | 1.83          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 4        | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2 | 18       | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3 | 18       | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2 | 19       | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3 | 19       | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2 | 20       | 1.83          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3 | 20       | 1.83          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 9        | 1.83          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB2 | 4        | 1.83          |
| (1,4017) | 1:A:21:SER:H   | 1:A:23:TYR:HB3 | 4        | 1.83          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 7        | 1.83          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 18       | 1.83          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 19       | 1.83          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 20       | 1.83          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 3        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 2        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 2        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 3        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 3        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 4        | 1.83          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 4        | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 13       | 1.83          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 13       | 1.83          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 6        | 1.83          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 6        | 1.83          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB2  | 17       | 1.83          |
| (1,3186) | 1:A:14:CYS:H   | 1:A:26:CYS:HB3  | 17       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 10       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 10       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 10       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 10       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 10       | 1.83          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 10       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 7        | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 7        | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 8        | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 8        | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 12       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 12       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 14       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 14       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 15       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 15       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 16       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 16       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 18       | 1.83          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 18       | 1.83          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2  | 4        | 1.83          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3  | 4        | 1.83          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 18       | 1.83          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 19       | 1.83          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1  | 16       | 1.82          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 1        | 1.82          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 2        | 1.82          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 5        | 1.82          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 9        | 1.82          |
| (1,4837) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HB2  | 13       | 1.82          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 1        | 1.82          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2  | 5        | 1.82          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3  | 5        | 1.82          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE2  | 18       | 1.82          |
| (1,4407) | 1:A:23:TYR:HD1 | 1:A:31:LYS:HE3  | 18       | 1.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE2  | 18       | 1.82          |
| (1,4407) | 1:A:23:TYR:HD2 | 1:A:31:LYS:HE3  | 18       | 1.82          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 15       | 1.82          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 15       | 1.82          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 20       | 1.82          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 20       | 1.82          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB2  | 16       | 1.82          |
| (1,4093) | 1:A:21:SER:HG  | 1:A:32:TYR:HB3  | 16       | 1.82          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H    | 8        | 1.82          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H    | 14       | 1.82          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H    | 19       | 1.82          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 7        | 1.82          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 7        | 1.82          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3  | 16       | 1.82          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2  | 5        | 1.82          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 9        | 1.82          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3  | 4        | 1.82          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3  | 5        | 1.82          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG   | 11       | 1.82          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 3        | 1.82          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 15       | 1.82          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 15       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 4        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 5        | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD11 | 17       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD12 | 17       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD13 | 17       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD21 | 17       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD22 | 17       | 1.82          |
| (1,3173) | 1:A:14:CYS:H   | 1:A:18:LEU:HD23 | 17       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2  | 1:A:12:GLY:H    | 2        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3  | 1:A:12:GLY:H    | 2        | 1.82          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 3        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 3        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 4        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 4        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 5        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 5        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 6        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 6        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 9        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 9        | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 10       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 10       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 17       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 17       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 19       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 19       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD2   | 1:A:12:GLY:H    | 20       | 1.82          |
| (1,2427) | 1:A:9:PRO:HD3   | 1:A:12:GLY:H    | 20       | 1.82          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB2   | 17       | 1.82          |
| (1,1503) | 1:A:6:GLN:H     | 1:A:7:CYS:HB3   | 17       | 1.82          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2  | 3        | 1.82          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3  | 3        | 1.82          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB2   | 13       | 1.82          |
| (1,1181) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HB3   | 13       | 1.82          |
| (1,1118) | 1:A:4:ASN:HB2   | 1:A:5:GLY:HA3   | 2        | 1.82          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22  | 3        | 1.81          |
| (1,950)  | 1:A:3:PRO:HD2   | 1:A:4:ASN:HD22  | 6        | 1.81          |
| (1,4894) | 1:A:31:LYS:HB3  | 1:A:33:CYS:H    | 7        | 1.81          |
| (1,4894) | 1:A:31:LYS:HB3  | 1:A:33:CYS:H    | 14       | 1.81          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H    | 3        | 1.81          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H    | 17       | 1.81          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1  | 5        | 1.81          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2  | 5        | 1.81          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1  | 11       | 1.81          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2  | 11       | 1.81          |
| (1,4216) | 1:A:22:GLN:HB3  | 1:A:22:GLN:HE22 | 11       | 1.81          |
| (1,4216) | 1:A:22:GLN:HB3  | 1:A:22:GLN:HE22 | 19       | 1.81          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1  | 4        | 1.81          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2  | 4        | 1.81          |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3  | 4        | 1.81          |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3  | 4        | 1.81          |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3  | 4        | 1.81          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3 | 9        | 1.81          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 10       | 1.81          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 9        | 1.81          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 16       | 1.81          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H   | 13       | 1.81          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H   | 13       | 1.81          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 15       | 1.81          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 15       | 1.81          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 9        | 1.81          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 11       | 1.81          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2 | 6        | 1.81          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3 | 6        | 1.81          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 6        | 1.81          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 6        | 1.81          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB2  | 11       | 1.81          |
| (1,1181) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HB3  | 11       | 1.81          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 12       | 1.81          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 13       | 1.81          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 16       | 1.81          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 6        | 1.81          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3  | 10       | 1.81          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 2        | 1.8           |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 10       | 1.8           |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 19       | 1.8           |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 17       | 1.8           |
| (1,4859) | 1:A:31:LYS:HB2 | 1:A:33:CYS:H   | 15       | 1.8           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 7        | 1.8           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 7        | 1.8           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 16       | 1.8           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 16       | 1.8           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 4        | 1.8           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 4        | 1.8           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2 | 14       | 1.8           |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3 | 14       | 1.8           |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 11       | 1.8           |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 11       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 13       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 13       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 16       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 16       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 17       | 1.8           |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 17       | 1.8           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 17       | 1.8           |
| (1,4212) | 1:A:22:GLN:HG2  | 1:A:35:HIS:HD2 | 20       | 1.8           |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 18       | 1.8           |
| (1,4075) | 1:A:21:SER:HG   | 1:A:27:GLY:H   | 20       | 1.8           |
| (1,4048) | 1:A:21:SER:HB2  | 1:A:27:GLY:HA3 | 7        | 1.8           |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H   | 19       | 1.8           |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 10       | 1.8           |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 10       | 1.8           |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 10       | 1.8           |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 17       | 1.8           |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB2 | 10       | 1.8           |
| (1,3186) | 1:A:14:CYS:H    | 1:A:26:CYS:HB3 | 10       | 1.8           |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB2 | 17       | 1.8           |
| (1,1800) | 1:A:6:GLN:HE21  | 1:A:11:TRP:HB3 | 17       | 1.8           |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB2 | 1        | 1.8           |
| (1,1573) | 1:A:6:GLN:HA    | 1:A:26:CYS:HB3 | 1        | 1.8           |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 3        | 1.8           |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 6        | 1.8           |
| (1,1548) | 1:A:6:GLN:HA    | 1:A:6:GLN:HE21 | 1        | 1.8           |
| (1,1548) | 1:A:6:GLN:HA    | 1:A:6:GLN:HE21 | 15       | 1.8           |
| (1,1439) | 1:A:5:GLY:H     | 1:A:26:CYS:H   | 20       | 1.8           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 5        | 1.8           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 5        | 1.8           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 10       | 1.8           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 10       | 1.8           |
| (1,1120) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HA   | 7        | 1.8           |
| (1,1118) | 1:A:4:ASN:HB2   | 1:A:5:GLY:HA3  | 5        | 1.8           |
| (1,950)  | 1:A:3:PRO:HD2   | 1:A:4:ASN:HD22 | 5        | 1.79          |
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1 | 2        | 1.79          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 1        | 1.79          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 6        | 1.79          |
| (1,4859) | 1:A:31:LYS:HB2  | 1:A:33:CYS:H   | 10       | 1.79          |
| (1,4837) | 1:A:30:PRO:HD3  | 1:A:31:LYS:HB2 | 12       | 1.79          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1 | 13       | 1.79          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2 | 13       | 1.79          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3 | 13       | 1.79          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD1 | 16       | 1.79          |
| (1,4754) | 1:A:28:SER:HB3  | 1:A:32:TYR:HD2 | 16       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 2        | 1.79          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 2        | 1.79          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB2 | 8        | 1.79          |
| (1,4753) | 1:A:28:SER:HB3  | 1:A:32:TYR:HB3 | 8        | 1.79          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2  | 12       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3  | 12       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2  | 13       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3  | 13       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB2  | 15       | 1.79          |
| (1,4753) | 1:A:28:SER:HB3 | 1:A:32:TYR:HB3  | 15       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2  | 18       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3  | 18       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2  | 19       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3  | 19       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2  | 20       | 1.79          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3  | 20       | 1.79          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 1        | 1.79          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 13       | 1.79          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 13       | 1.79          |
| (1,4075) | 1:A:21:SER:HG  | 1:A:27:GLY:H    | 16       | 1.79          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 1        | 1.79          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 1        | 1.79          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 15       | 1.79          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 15       | 1.79          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3  | 12       | 1.79          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H    | 5        | 1.79          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H    | 6        | 1.79          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3  | 2        | 1.79          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 4        | 1.79          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21  | 12       | 1.79          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21  | 13       | 1.79          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21  | 17       | 1.79          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H    | 18       | 1.79          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA    | 8        | 1.79          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA    | 17       | 1.79          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA    | 18       | 1.79          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22  | 8        | 1.78          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1  | 8        | 1.78          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 12       | 1.78          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 6        | 1.78          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 4        | 1.78          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 4        | 1.78          |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2  | 15       | 1.78          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3  | 15       | 1.78          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 15       | 1.78          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 15       | 1.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 7        | 1.78          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 7        | 1.78          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 16       | 1.78          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 16       | 1.78          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 1        | 1.78          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 1        | 1.78          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 11       | 1.78          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 11       | 1.78          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 8        | 1.78          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 8        | 1.78          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H   | 20       | 1.78          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD1 | 19       | 1.78          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD2 | 19       | 1.78          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1 | 10       | 1.78          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2 | 10       | 1.78          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 2        | 1.78          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 2        | 1.78          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE1 | 10       | 1.78          |
| (1,4072) | 1:A:21:SER:HG  | 1:A:25:TYR:HE2 | 10       | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 4        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 4        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 6        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 6        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 8        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 8        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 9        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 9        | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 14       | 1.78          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 14       | 1.78          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 18       | 1.78          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 19       | 1.78          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3 | 7        | 1.78          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 13       | 1.78          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2 | 11       | 1.78          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3 | 11       | 1.78          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 8        | 1.78          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 16       | 1.78          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 20       | 1.78          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 11       | 1.78          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 4        | 1.77          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 16       | 1.77          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 17       | 1.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 18       | 1.77          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 5        | 1.77          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 20       | 1.77          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 9        | 1.77          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 18       | 1.77          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 19       | 1.77          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 20       | 1.77          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H   | 8        | 1.77          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H   | 8        | 1.77          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1 | 3        | 1.77          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2 | 3        | 1.77          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3 | 3        | 1.77          |
| (1,4793) | 1:A:30:PRO:HA  | 1:A:31:LYS:HG3 | 6        | 1.77          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2 | 6        | 1.77          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3 | 6        | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 18       | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 18       | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 19       | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 19       | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD1 | 20       | 1.77          |
| (1,4754) | 1:A:28:SER:HB3 | 1:A:32:TYR:HD2 | 20       | 1.77          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1 | 14       | 1.77          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2 | 14       | 1.77          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 15       | 1.77          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 15       | 1.77          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1 | 9        | 1.77          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2 | 9        | 1.77          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 3        | 1.77          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 3        | 1.77          |
| (1,4048) | 1:A:21:SER:HB2 | 1:A:27:GLY:HA3 | 20       | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 2        | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 2        | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 5        | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 5        | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 17       | 1.77          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 17       | 1.77          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 7        | 1.77          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 7        | 1.77          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 9        | 1.77          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 3        | 1.77          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 4        | 1.77          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2 | 14       | 1.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3 | 14       | 1.77          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 7        | 1.77          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 18       | 1.77          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 19       | 1.77          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2 | 13       | 1.77          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3 | 13       | 1.77          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 16       | 1.77          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H   | 19       | 1.77          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 19       | 1.77          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 16       | 1.76          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 18       | 1.76          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 2        | 1.76          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 2        | 1.76          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 16       | 1.76          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 15       | 1.76          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 15       | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 7        | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 7        | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 8        | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 8        | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2 | 9        | 1.76          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3 | 9        | 1.76          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 3        | 1.76          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 3        | 1.76          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 10       | 1.76          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 10       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 9        | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 9        | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 18       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 18       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 19       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 19       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 20       | 1.76          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 20       | 1.76          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 11       | 1.76          |
| (1,3907) | 1:A:19:CYS:HB3 | 1:A:35:HIS:H   | 17       | 1.76          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3 | 4        | 1.76          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 1        | 1.76          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2 | 2        | 1.76          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA  | 11       | 1.76          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 4        | 1.76          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 14       | 1.76          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1180) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HA   | 7        | 1.76          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 9        | 1.75          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 14       | 1.75          |
| (1,996)  | 1:A:3:PRO:HD3   | 1:A:4:ASN:HD22 | 20       | 1.75          |
| (1,950)  | 1:A:3:PRO:HD2   | 1:A:4:ASN:HD22 | 7        | 1.75          |
| (1,950)  | 1:A:3:PRO:HD2   | 1:A:4:ASN:HD22 | 12       | 1.75          |
| (1,950)  | 1:A:3:PRO:HD2   | 1:A:4:ASN:HD22 | 13       | 1.75          |
| (1,4941) | 1:A:34:ALA:HB1  | 1:A:35:HIS:HB3 | 2        | 1.75          |
| (1,4941) | 1:A:34:ALA:HB2  | 1:A:35:HIS:HB3 | 2        | 1.75          |
| (1,4941) | 1:A:34:ALA:HB3  | 1:A:35:HIS:HB3 | 2        | 1.75          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 3        | 1.75          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE1 | 3        | 1.75          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE2 | 3        | 1.75          |
| (1,4842) | 1:A:30:PRO:HD3  | 1:A:32:TYR:H   | 10       | 1.75          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 10       | 1.75          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 10       | 1.75          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1 | 15       | 1.75          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2 | 15       | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2 | 3        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3 | 3        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2 | 4        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3 | 4        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2 | 6        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3 | 6        | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB2 | 14       | 1.75          |
| (1,4461) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HB3 | 14       | 1.75          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1 | 3        | 1.75          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2 | 3        | 1.75          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1 | 7        | 1.75          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2 | 7        | 1.75          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2 | 4        | 1.75          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 4        | 1.75          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2 | 6        | 1.75          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 6        | 1.75          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2 | 8        | 1.75          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3 | 8        | 1.75          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2 | 16       | 1.75          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3 | 16       | 1.75          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 16       | 1.75          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 16       | 1.75          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 16       | 1.75          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 16       | 1.75          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 16       | 1.75          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 16       | 1.75          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 3        | 1.75          |
| (1,3704) | 1:A:18:LEU:HB3  | 1:A:19:CYS:HB2  | 10       | 1.75          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1  | 10       | 1.75          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2  | 10       | 1.75          |
| (1,1548) | 1:A:6:GLN:HA    | 1:A:6:GLN:HE21  | 3        | 1.75          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2  | 6        | 1.75          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3  | 6        | 1.75          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2   | 2        | 1.75          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3   | 2        | 1.75          |
| (1,1180) | 1:A:4:ASN:HB3   | 1:A:6:GLN:HA    | 16       | 1.75          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H    | 14       | 1.74          |
| (1,4056) | 1:A:21:SER:HB3  | 1:A:25:TYR:HD1  | 11       | 1.74          |
| (1,4056) | 1:A:21:SER:HB3  | 1:A:25:TYR:HD2  | 11       | 1.74          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 1        | 1.74          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 1        | 1.74          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 1        | 1.74          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 1        | 1.74          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 1        | 1.74          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 1        | 1.74          |
| (1,3704) | 1:A:18:LEU:HB3  | 1:A:19:CYS:HB2  | 15       | 1.74          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 8        | 1.74          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 8        | 1.74          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 12       | 1.74          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 12       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 16       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 16       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 16       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 16       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 16       | 1.74          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 16       | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD11 | 2        | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD12 | 2        | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD13 | 2        | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD21 | 2        | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD22 | 2        | 1.74          |
| (1,3173) | 1:A:14:CYS:H    | 1:A:18:LEU:HD23 | 2        | 1.74          |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3  | 14       | 1.74          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 2        | 1.74          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 2        | 1.74          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 12       | 1.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 12       | 1.74          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 6        | 1.74          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 6        | 1.74          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 6        | 1.74          |
| (1,1439) | 1:A:5:GLY:H    | 1:A:26:CYS:H    | 7        | 1.74          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21  | 9        | 1.73          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2  | 12       | 1.73          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG2   | 9        | 1.73          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG2   | 9        | 1.73          |
| (1,540)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HG3   | 9        | 1.73          |
| (1,540)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HG3   | 9        | 1.73          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1  | 18       | 1.73          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 16       | 1.73          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 16       | 1.73          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 16       | 1.73          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H    | 19       | 1.73          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 19       | 1.73          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 19       | 1.73          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H    | 7        | 1.73          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2  | 6        | 1.73          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3  | 6        | 1.73          |
| (1,4827) | 1:A:30:PRO:HG2 | 1:A:35:HIS:H    | 10       | 1.73          |
| (1,4827) | 1:A:30:PRO:HG3 | 1:A:35:HIS:H    | 10       | 1.73          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 8        | 1.73          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 8        | 1.73          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 9        | 1.73          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 9        | 1.73          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 1        | 1.73          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 1        | 1.73          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG2  | 14       | 1.73          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG2  | 14       | 1.73          |
| (1,4429) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HG3  | 14       | 1.73          |
| (1,4429) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HG3  | 14       | 1.73          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD1  | 18       | 1.73          |
| (1,4197) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HD2  | 18       | 1.73          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 11       | 1.73          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 11       | 1.73          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 3        | 1.73          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 3        | 1.73          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 5        | 1.73          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 5        | 1.73          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2  | 12       | 1.73          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 12       | 1.73          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 15       | 1.73          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 15       | 1.73          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3 | 8        | 1.73          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA  | 1        | 1.73          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA  | 13       | 1.73          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 1        | 1.73          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 17       | 1.73          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 9        | 1.73          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 9        | 1.73          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 8        | 1.73          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 14       | 1.73          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 14       | 1.73          |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 14       | 1.73          |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 14       | 1.73          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 2        | 1.73          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21 | 10       | 1.73          |
| (1,1180) | 1:A:4:ASN:HB3  | 1:A:6:GLN:HA   | 13       | 1.73          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 1        | 1.72          |
| (1,996)  | 1:A:3:PRO:HD3  | 1:A:4:ASN:HD22 | 15       | 1.72          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 11       | 1.72          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21 | 3        | 1.72          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21 | 4        | 1.72          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21 | 14       | 1.72          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21 | 20       | 1.72          |
| (1,4894) | 1:A:31:LYS:HB3 | 1:A:33:CYS:H   | 20       | 1.72          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 13       | 1.72          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 13       | 1.72          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 20       | 1.72          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 20       | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 1        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 2        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 3        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 4        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 5        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 6        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 9        | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 11       | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 13       | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 14       | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 15       | 1.72          |
| (1,4842) | 1:A:30:PRO:HD3 | 1:A:32:TYR:H   | 17       | 1.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2  | 10       | 1.72          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3  | 10       | 1.72          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2  | 6        | 1.72          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3  | 6        | 1.72          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB2  | 12       | 1.72          |
| (1,4461) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HB3  | 12       | 1.72          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 17       | 1.72          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 17       | 1.72          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 2        | 1.72          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 2        | 1.72          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 5        | 1.72          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 5        | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 2        | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 2        | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 6        | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 6        | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 17       | 1.72          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 17       | 1.72          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 11       | 1.72          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA   | 3        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 7        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 7        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 7        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 7        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 7        | 1.72          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 7        | 1.72          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H    | 15       | 1.72          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 14       | 1.72          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 14       | 1.72          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 2        | 1.72          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 2        | 1.72          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 5        | 1.72          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 5        | 1.72          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 9        | 1.72          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 12       | 1.72          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21  | 5        | 1.72          |
| (1,1548) | 1:A:6:GLN:HA   | 1:A:6:GLN:HE21  | 6        | 1.72          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 10       | 1.72          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 10       | 1.72          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21  | 1        | 1.71          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21  | 15       | 1.71          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2  | 8        | 1.71          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA    | 11       | 1.71          |
| (1,4842) | 1:A:30:PRO:HD3  | 1:A:32:TYR:H    | 8        | 1.71          |
| (1,4842) | 1:A:30:PRO:HD3  | 1:A:32:TYR:H    | 12       | 1.71          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ1  | 17       | 1.71          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ2  | 17       | 1.71          |
| (1,4832) | 1:A:30:PRO:HD2  | 1:A:31:LYS:HZ3  | 17       | 1.71          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1  | 13       | 1.71          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2  | 13       | 1.71          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1  | 12       | 1.71          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2  | 12       | 1.71          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3  | 3        | 1.71          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2  | 4        | 1.71          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3  | 4        | 1.71          |
| (1,4056) | 1:A:21:SER:HB3  | 1:A:25:TYR:HD1  | 19       | 1.71          |
| (1,4056) | 1:A:21:SER:HB3  | 1:A:25:TYR:HD2  | 19       | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 1        | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 1        | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 11       | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 11       | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 13       | 1.71          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 13       | 1.71          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 7        | 1.71          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 7        | 1.71          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 7        | 1.71          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 7        | 1.71          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 7        | 1.71          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 7        | 1.71          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 13       | 1.71          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA   | 4        | 1.71          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3  | 13       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 7        | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 7        | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 18       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 18       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 19       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 19       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2  | 20       | 1.71          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3  | 20       | 1.71          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG   | 12       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 18       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 18       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 18       | 1.71          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 18       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 18       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 18       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 19       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 20       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 20       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 20       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 20       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 20       | 1.71          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 20       | 1.71          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H    | 8        | 1.71          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 5        | 1.71          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 5        | 1.71          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 15       | 1.71          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 15       | 1.71          |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2  | 16       | 1.7           |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE1  | 17       | 1.7           |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE2  | 17       | 1.7           |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1  | 6        | 1.7           |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2  | 6        | 1.7           |
| (1,4247) | 1:A:22:GLN:HG3  | 1:A:24:GLY:H    | 13       | 1.7           |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2  | 10       | 1.7           |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3  | 10       | 1.7           |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG2  | 20       | 1.7           |
| (1,4051) | 1:A:21:SER:HB2  | 1:A:31:LYS:HG3  | 20       | 1.7           |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2  | 8        | 1.7           |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3  | 8        | 1.7           |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2  | 13       | 1.7           |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3  | 13       | 1.7           |
| (1,3907) | 1:A:19:CYS:HB3  | 1:A:35:HIS:H    | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 20       | 1.7           |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 20       | 1.7           |
| (1,3704) | 1:A:18:LEU:HB3  | 1:A:19:CYS:HB2  | 5        | 1.7           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 6        | 1.7           |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA   | 6        | 1.7           |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2  | 16       | 1.7           |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3  | 16       | 1.7           |
| (1,3424) | 1:A:15:ARG:HE  | 1:A:18:LEU:HG   | 1        | 1.7           |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 9        | 1.7           |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 9        | 1.7           |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 2        | 1.7           |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 2        | 1.7           |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 3        | 1.7           |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 3        | 1.7           |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 10       | 1.7           |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 10       | 1.7           |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 4        | 1.7           |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 4        | 1.7           |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 7        | 1.7           |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 1        | 1.7           |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 9        | 1.7           |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 11       | 1.7           |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 20       | 1.7           |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 2        | 1.7           |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 2        | 1.7           |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 2        | 1.7           |
| (1,101)  | 1:A:8:GLY:H    | 1:A:11:TRP:HB3  | 1        | 1.7           |
| (1,101)  | 1:A:8:GLY:H    | 1:A:11:TRP:HB3  | 11       | 1.7           |
| (1,101)  | 1:A:8:GLY:H    | 1:A:11:TRP:HB3  | 12       | 1.7           |
| (1,101)  | 1:A:8:GLY:H    | 1:A:11:TRP:HB3  | 13       | 1.7           |
| (1,101)  | 1:A:8:GLY:H    | 1:A:11:TRP:HB3  | 15       | 1.7           |
| (1,957)  | 1:A:3:PRO:HD2  | 1:A:11:TRP:HH2  | 9        | 1.69          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA   | 19       | 1.69          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 7        | 1.69          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE1  | 20       | 1.69          |
| (1,4199) | 1:A:22:GLN:HB2 | 1:A:32:TYR:HE2  | 20       | 1.69          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 18       | 1.69          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 18       | 1.69          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 20       | 1.69          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 20       | 1.69          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2  | 11       | 1.69          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3  | 11       | 1.69          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2  | 14       | 1.69          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3  | 14       | 1.69          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2  | 15       | 1.69          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 15       | 1.69          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 3        | 1.69          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 3        | 1.69          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 3        | 1.69          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 3        | 1.69          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 3        | 1.69          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 3        | 1.69          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 12       | 1.69          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 10       | 1.69          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 11       | 1.69          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 7        | 1.69          |
| (1,3244) | 1:A:14:CYS:HB3  | 1:A:26:CYS:H   | 14       | 1.69          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 9        | 1.69          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H   | 4        | 1.69          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H   | 4        | 1.69          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 13       | 1.69          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 18       | 1.69          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2 | 1        | 1.69          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3 | 1        | 1.69          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2 | 9        | 1.69          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3 | 9        | 1.69          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 2        | 1.69          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 2        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 2        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 3        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 4        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 5        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 6        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 7        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 8        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 9        | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 14       | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 16       | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 18       | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 19       | 1.69          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 20       | 1.69          |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2 | 7        | 1.68          |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2 | 19       | 1.68          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1 | 6        | 1.68          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H   | 12       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG2  | 1:A:32:TYR:H   | 10       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG3  | 1:A:32:TYR:H   | 10       | 1.68          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H    | 16       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H    | 16       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H    | 18       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H    | 18       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H    | 19       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H    | 19       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H    | 20       | 1.68          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H    | 20       | 1.68          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 20       | 1.68          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 20       | 1.68          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 16       | 1.68          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 16       | 1.68          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 13       | 1.68          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 13       | 1.68          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 17       | 1.68          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 17       | 1.68          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2  | 1        | 1.68          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3  | 1        | 1.68          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2  | 9        | 1.68          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3  | 9        | 1.68          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2  | 14       | 1.68          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3  | 14       | 1.68          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2  | 17       | 1.68          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3  | 17       | 1.68          |
| (1,3743) | 1:A:18:LEU:HG  | 1:A:27:GLY:HA2  | 17       | 1.68          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA   | 2        | 1.68          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG   | 16       | 1.68          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG   | 18       | 1.68          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG   | 19       | 1.68          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 15       | 1.68          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 1        | 1.68          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 1        | 1.68          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 12       | 1.68          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 19       | 1.68          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 11       | 1.68          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 11       | 1.68          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 4        | 1.68          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 4        | 1.68          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 4        | 1.68          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2  | 10       | 1.68          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3  | 10       | 1.68          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2  | 13       | 1.68          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 13       | 1.68          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 10       | 1.68          |
| (1,101)  | 1:A:8:GLY:H     | 1:A:11:TRP:HB3 | 17       | 1.68          |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 20       | 1.67          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 20       | 1.67          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H   | 9        | 1.67          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1 | 7        | 1.67          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2 | 7        | 1.67          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1 | 18       | 1.67          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2 | 18       | 1.67          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1 | 3        | 1.67          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2 | 3        | 1.67          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2 | 12       | 1.67          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 12       | 1.67          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2 | 16       | 1.67          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3 | 16       | 1.67          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2 | 2        | 1.67          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3 | 2        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 9        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 9        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 9        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 9        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 9        | 1.67          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 9        | 1.67          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 15       | 1.67          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 15       | 1.67          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 20       | 1.67          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 11       | 1.67          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 13       | 1.67          |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 8        | 1.67          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 15       | 1.67          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 5        | 1.67          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 5        | 1.67          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1 | 17       | 1.66          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB1 | 16       | 1.66          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB2 | 16       | 1.66          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB3 | 16       | 1.66          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD1 | 12       | 1.66          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD2 | 12       | 1.66          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 12       | 1.66          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 12       | 1.66          |
| (1,4821) | 1:A:30:PRO:HG2  | 1:A:32:TYR:H   | 4        | 1.66          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4821) | 1:A:30:PRO:HG3  | 1:A:32:TYR:H    | 4        | 1.66          |
| (1,4807) | 1:A:30:PRO:HB2  | 1:A:35:HIS:HD2  | 4        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 3        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 3        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 5        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 5        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 6        | 1.66          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 6        | 1.66          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 1        | 1.66          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 1        | 1.66          |
| (1,4302) | 1:A:22:GLN:HE22 | 1:A:23:TYR:HA   | 7        | 1.66          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2  | 11       | 1.66          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3  | 11       | 1.66          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA2  | 7        | 1.66          |
| (1,4024) | 1:A:21:SER:H    | 1:A:27:GLY:HA3  | 7        | 1.66          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 5        | 1.66          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 5        | 1.66          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 10       | 1.66          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 10       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 19       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 19       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 19       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 19       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 19       | 1.66          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 19       | 1.66          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA   | 5        | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 15       | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 15       | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 15       | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 15       | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 15       | 1.66          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 15       | 1.66          |
| (1,3321) | 1:A:15:ARG:HB3  | 1:A:15:ARG:HE   | 7        | 1.66          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2  | 20       | 1.66          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3  | 20       | 1.66          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H    | 5        | 1.66          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H    | 5        | 1.66          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H    | 6        | 1.66          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H    | 6        | 1.66          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H    | 11       | 1.66          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H    | 11       | 1.66          |
| (1,1702) | 1:A:6:GLN:HG2   | 1:A:11:TRP:HE3  | 17       | 1.66          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 12       | 1.66          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 12       | 1.66          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H   | 16       | 1.66          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 20       | 1.65          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 16       | 1.65          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 16       | 1.65          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2 | 14       | 1.65          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3 | 14       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 2        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 2        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 7        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 7        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 8        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 8        | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 12       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 12       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 13       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 13       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 14       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 14       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 15       | 1.65          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 15       | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2 | 7        | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB3 | 7        | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2 | 11       | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB3 | 11       | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2 | 17       | 1.65          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB3 | 17       | 1.65          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 5        | 1.65          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 5        | 1.65          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 19       | 1.65          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 19       | 1.65          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE2 | 18       | 1.65          |
| (1,4123) | 1:A:22:GLN:H   | 1:A:31:LYS:HE3 | 18       | 1.65          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2 | 1        | 1.65          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3 | 1        | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 18       | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 18       | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 19       | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 19       | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA2 | 20       | 1.65          |
| (1,4024) | 1:A:21:SER:H   | 1:A:27:GLY:HA3 | 20       | 1.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 4        | 1.65          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 4        | 1.65          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB2 | 6        | 1.65          |
| (1,4023) | 1:A:21:SER:H   | 1:A:26:CYS:HB3 | 6        | 1.65          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG  | 9        | 1.65          |
| (1,3453) | 1:A:16:GLY:H   | 1:A:18:LEU:HG  | 13       | 1.65          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE  | 20       | 1.65          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG2 | 8        | 1.65          |
| (1,3087) | 1:A:13:GLY:H   | 1:A:15:ARG:HG3 | 8        | 1.65          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H   | 7        | 1.65          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H   | 14       | 1.65          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 19       | 1.65          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 19       | 1.65          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 15       | 1.64          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 15       | 1.64          |
| (1,718)  | 1:A:2:GLY:HA3  | 1:A:11:TRP:HH2 | 18       | 1.64          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 12       | 1.64          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 12       | 1.64          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 19       | 1.64          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 19       | 1.64          |
| (1,4876) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HD2 | 19       | 1.64          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 13       | 1.64          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2 | 8        | 1.64          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3 | 8        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 1        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 1        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 3        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 3        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 5        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 5        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 6        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 6        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 9        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 9        | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 11       | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 11       | 1.64          |
| (1,4821) | 1:A:30:PRO:HG2 | 1:A:32:TYR:H   | 17       | 1.64          |
| (1,4821) | 1:A:30:PRO:HG3 | 1:A:32:TYR:H   | 17       | 1.64          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 5        | 1.64          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 5        | 1.64          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1 | 17       | 1.64          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2 | 17       | 1.64          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 1        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 1        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 2        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 2        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 4        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 4        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 8        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 8        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 9        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 9        | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 10       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 10       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 12       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 12       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 13       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 13       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 14       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 14       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2  | 15       | 1.64          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3  | 15       | 1.64          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1  | 11       | 1.64          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2  | 11       | 1.64          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1  | 17       | 1.64          |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2  | 17       | 1.64          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2  | 13       | 1.64          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3  | 13       | 1.64          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB2  | 3        | 1.64          |
| (1,4023) | 1:A:21:SER:H    | 1:A:26:CYS:HB3  | 3        | 1.64          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2  | 16       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 18       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 18       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 18       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 18       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 18       | 1.64          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 18       | 1.64          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3  | 12       | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD11 | 9        | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD12 | 9        | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD13 | 9        | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD21 | 9        | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD22 | 9        | 1.64          |
| (1,3454) | 1:A:16:GLY:H    | 1:A:18:LEU:HD23 | 9        | 1.64          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 1        | 1.64          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H   | 15       | 1.64          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H   | 15       | 1.64          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2 | 3        | 1.64          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3 | 3        | 1.64          |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 5        | 1.64          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2 | 8        | 1.64          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3 | 8        | 1.64          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2 | 17       | 1.64          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3 | 17       | 1.64          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 8        | 1.64          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 8        | 1.64          |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21 | 13       | 1.63          |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21 | 13       | 1.63          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA   | 15       | 1.63          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1 | 11       | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 2        | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 2        | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 4        | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 4        | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 15       | 1.63          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 15       | 1.63          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 6        | 1.63          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 6        | 1.63          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 9        | 1.63          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 9        | 1.63          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB2 | 16       | 1.63          |
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3 | 16       | 1.63          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE2 | 18       | 1.63          |
| (1,4432) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HE3 | 18       | 1.63          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE2 | 18       | 1.63          |
| (1,4432) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HE3 | 18       | 1.63          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 17       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 12       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 12       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 12       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 12       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 12       | 1.63          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 12       | 1.63          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 16       | 1.63          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 16       | 1.63          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H   | 14       | 1.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 14       | 1.63          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 2        | 1.63          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 2        | 1.63          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 16       | 1.63          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 18       | 1.63          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 19       | 1.63          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 20       | 1.63          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 3        | 1.63          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 4        | 1.63          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 5        | 1.63          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 6        | 1.63          |
| (1,1571) | 1:A:6:GLN:HA   | 1:A:25:TYR:H    | 10       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 18       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 18       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 19       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 19       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB2  | 20       | 1.63          |
| (1,1532) | 1:A:6:GLN:H    | 1:A:26:CYS:HB3  | 20       | 1.63          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 3        | 1.63          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 3        | 1.63          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 3        | 1.63          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2   | 18       | 1.63          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3   | 18       | 1.63          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 2        | 1.62          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA    | 13       | 1.62          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3  | 7        | 1.62          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3  | 7        | 1.62          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 19       | 1.62          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 19       | 1.62          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 19       | 1.62          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H    | 17       | 1.62          |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H    | 7        | 1.62          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 13       | 1.62          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 13       | 1.62          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1  | 4        | 1.62          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1  | 3        | 1.62          |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2  | 3        | 1.62          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2  | 18       | 1.62          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB3  | 18       | 1.62          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2  | 19       | 1.62          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB3  | 19       | 1.62          |
| (1,4775) | 1:A:29:GLY:HA3 | 1:A:30:PRO:HB2  | 20       | 1.62          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4775) | 1:A:29:GLY:HA3  | 1:A:30:PRO:HB3 | 20       | 1.62          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE1 | 10       | 1.62          |
| (1,4380) | 1:A:23:TYR:HB2  | 1:A:32:TYR:HE2 | 10       | 1.62          |
| (1,4158) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HB3 | 15       | 1.62          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 16       | 1.62          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 19       | 1.62          |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 19       | 1.62          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 1        | 1.62          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 1        | 1.62          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 7        | 1.62          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 9        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 8        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 8        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 8        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 8        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 8        | 1.62          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 8        | 1.62          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 2        | 1.62          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 18       | 1.62          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 19       | 1.62          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG  | 13       | 1.62          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 1        | 1.62          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG  | 8        | 1.62          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 12       | 1.62          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 12       | 1.62          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 18       | 1.62          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 18       | 1.62          |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1 | 2        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1 | 2        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1 | 5        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1 | 5        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1 | 6        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1 | 6        | 1.62          |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1 | 10       | 1.62          |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1 | 10       | 1.62          |
| (1,1995) | 1:A:7:CYS:HB2   | 1:A:21:SER:H   | 13       | 1.62          |
| (1,1995) | 1:A:7:CYS:HB3   | 1:A:21:SER:H   | 13       | 1.62          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1 | 16       | 1.62          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2 | 16       | 1.62          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 8        | 1.62          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 8        | 1.62          |
| (1,1571) | 1:A:6:GLN:HA    | 1:A:25:TYR:H   | 2        | 1.62          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 7        | 1.62          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 7        | 1.62          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB2  | 16       | 1.62          |
| (1,1532) | 1:A:6:GLN:H     | 1:A:26:CYS:HB3  | 16       | 1.62          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 5        | 1.62          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 5        | 1.62          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 5        | 1.62          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21  | 17       | 1.61          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1  | 20       | 1.61          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H    | 18       | 1.61          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H    | 19       | 1.61          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H    | 20       | 1.61          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1  | 1        | 1.61          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2  | 1        | 1.61          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1  | 11       | 1.61          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2  | 11       | 1.61          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2  | 10       | 1.61          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1  | 15       | 1.61          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2  | 15       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 11       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 11       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 11       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 11       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 11       | 1.61          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 11       | 1.61          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA   | 7        | 1.61          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA   | 17       | 1.61          |
| (1,3453) | 1:A:16:GLY:H    | 1:A:18:LEU:HG   | 12       | 1.61          |
| (1,2424) | 1:A:9:PRO:HD2   | 1:A:11:TRP:HE1  | 4        | 1.61          |
| (1,2424) | 1:A:9:PRO:HD3   | 1:A:11:TRP:HE1  | 4        | 1.61          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA2  | 10       | 1.61          |
| (1,1764) | 1:A:6:GLN:HG3   | 1:A:24:GLY:HA3  | 10       | 1.61          |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3  | 10       | 1.61          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 10       | 1.61          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 10       | 1.61          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 10       | 1.61          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2  | 1        | 1.61          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3  | 1        | 1.61          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2  | 11       | 1.61          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3  | 11       | 1.61          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2   | 12       | 1.61          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3   | 12       | 1.61          |

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| Key     | Atom-1        | Atom-2         | Model ID | Violation (Å) |
|---------|---------------|----------------|----------|---------------|
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 1        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 1        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 2        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 2        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 3        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 3        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 4        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 4        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 5        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 5        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 6        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 6        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 7        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 7        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 8        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 8        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 9        | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 9        | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 10       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 10       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 11       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 11       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 12       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 12       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 13       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 13       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 14       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 14       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 15       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 15       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 16       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 16       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 17       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 17       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 18       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 18       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 19       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 19       | 1.6           |
| (1,885) | 1:A:3:PRO:HG2 | 1:A:5:GLY:H    | 20       | 1.6           |
| (1,885) | 1:A:3:PRO:HG3 | 1:A:5:GLY:H    | 20       | 1.6           |
| (1,832) | 1:A:3:PRO:HB3 | 1:A:4:ASN:HD21 | 18       | 1.6           |
| (1,832) | 1:A:3:PRO:HB3 | 1:A:4:ASN:HD21 | 19       | 1.6           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3 | 16       | 1.6           |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3 | 16       | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 1        | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 3        | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 5        | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 6        | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 11       | 1.6           |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H   | 17       | 1.6           |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 1        | 1.6           |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 2        | 1.6           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 6        | 1.6           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 6        | 1.6           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 13       | 1.6           |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2 | 9        | 1.6           |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3 | 9        | 1.6           |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 2        | 1.6           |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 5        | 1.6           |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H   | 12       | 1.6           |
| (1,4158) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HB3 | 10       | 1.6           |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2 | 15       | 1.6           |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3 | 15       | 1.6           |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1 | 16       | 1.6           |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2 | 16       | 1.6           |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2 | 18       | 1.6           |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2 | 19       | 1.6           |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG  | 1        | 1.6           |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 12       | 1.6           |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 17       | 1.6           |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1 | 3        | 1.6           |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1 | 3        | 1.6           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H   | 17       | 1.6           |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2 | 5        | 1.6           |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3 | 5        | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 6        | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 6        | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 18       | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 18       | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 19       | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 19       | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 20       | 1.6           |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 20       | 1.6           |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3 | 2        | 1.6           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 15       | 1.6           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 7        | 1.6           |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 7        | 1.6           |
| (1,1)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 9        | 1.6           |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21 | 3        | 1.59          |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21 | 3        | 1.59          |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21 | 11       | 1.59          |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21 | 11       | 1.59          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 7        | 1.59          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 11       | 1.59          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 12       | 1.59          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 16       | 1.59          |
| (1,718)  | 1:A:2:GLY:HA3   | 1:A:11:TRP:HH2 | 9        | 1.59          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 9        | 1.59          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 9        | 1.59          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE1 | 5        | 1.59          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE2 | 5        | 1.59          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2 | 3        | 1.59          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2 | 4        | 1.59          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2 | 6        | 1.59          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2 | 17       | 1.59          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1 | 1        | 1.59          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2 | 1        | 1.59          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD2 | 10       | 1.59          |
| (1,4324) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HD3 | 10       | 1.59          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 13       | 1.59          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 19       | 1.59          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 20       | 1.59          |
| (1,3690) | 1:A:18:LEU:HB2  | 1:A:26:CYS:HA  | 20       | 1.59          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 7        | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 1        | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 1        | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 5        | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 5        | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 10       | 1.59          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 10       | 1.59          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 12       | 1.59          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 12       | 1.59          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 15       | 1.59          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 15       | 1.59          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 16       | 1.59          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 16       | 1.59          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 15       | 1.59          |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21 | 1        | 1.58          |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21 | 1        | 1.58          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 2        | 1.58          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 8        | 1.58          |
| (1,832)  | 1:A:3:PRO:HB3   | 1:A:4:ASN:HD21 | 13       | 1.58          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA   | 1        | 1.58          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA   | 8        | 1.58          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 19       | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB1 | 7        | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB2 | 7        | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB3 | 7        | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB1 | 8        | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB2 | 8        | 1.58          |
| (1,4916) | 1:A:32:TYR:H    | 1:A:34:ALA:HB3 | 8        | 1.58          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD1 | 3        | 1.58          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD2 | 3        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 1        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 1        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 5        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 5        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 6        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 6        | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 11       | 1.58          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 11       | 1.58          |
| (1,4323) | 1:A:22:GLN:HE22 | 1:A:31:LYS:HB3 | 15       | 1.58          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 4        | 1.58          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 8        | 1.58          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 9        | 1.58          |
| (1,4220) | 1:A:22:GLN:HB3  | 1:A:24:GLY:H   | 18       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 10       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 13       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 13       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 13       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 13       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 13       | 1.58          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 13       | 1.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 17       | 1.58          |
| (1,3691) | 1:A:18:LEU:HB2 | 1:A:27:GLY:HA2  | 14       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 12       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 13       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 13       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 13       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 13       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 13       | 1.58          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 13       | 1.58          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 20       | 1.58          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA    | 17       | 1.58          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 13       | 1.58          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 13       | 1.58          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2   | 17       | 1.58          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3   | 17       | 1.58          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 11       | 1.58          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 13       | 1.58          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 4        | 1.57          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 4        | 1.57          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21  | 5        | 1.57          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21  | 10       | 1.57          |
| (1,547)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HE3  | 18       | 1.57          |
| (1,547)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HE3  | 18       | 1.57          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H    | 11       | 1.57          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1  | 10       | 1.57          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2  | 10       | 1.57          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3  | 10       | 1.57          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 4        | 1.57          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 17       | 1.57          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 17       | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 3        | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 3        | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 10       | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 10       | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 17       | 1.57          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 17       | 1.57          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 10       | 1.57          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD2  | 15       | 1.57          |
| (1,4795) | 1:A:30:PRO:HA  | 1:A:31:LYS:HD3  | 15       | 1.57          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 2        | 1.57          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 5        | 1.57          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 6        | 1.57          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 7        | 1.57          |
| (1,4220) | 1:A:22:GLN:HB3 | 1:A:24:GLY:H    | 11       | 1.57          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 8        | 1.57          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 8        | 1.57          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 5        | 1.57          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 5        | 1.57          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2  | 6        | 1.57          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2  | 1        | 1.57          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3  | 1        | 1.57          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 11       | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 1        | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 1        | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 1        | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 1        | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 1        | 1.57          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 1        | 1.57          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 9        | 1.57          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 9        | 1.57          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 17       | 1.57          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 17       | 1.57          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA2  | 6        | 1.57          |
| (1,1764) | 1:A:6:GLN:HG3  | 1:A:24:GLY:HA3  | 6        | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 2        | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 2        | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 7        | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 7        | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 11       | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 11       | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 15       | 1.57          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 15       | 1.57          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 1        | 1.57          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3  | 13       | 1.57          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2   | 13       | 1.57          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3   | 13       | 1.57          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 14       | 1.57          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 10       | 1.56          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 10       | 1.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 12       | 1.56          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 12       | 1.56          |
| (1,832)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:HD21 | 6        | 1.56          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2 | 7        | 1.56          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3 | 7        | 1.56          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 14       | 1.56          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 14       | 1.56          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 14       | 1.56          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 12       | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 2        | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 4        | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 8        | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 12       | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 13       | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 14       | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 15       | 1.56          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 16       | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 1        | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 1        | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 7        | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 7        | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 11       | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 11       | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 12       | 1.56          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 12       | 1.56          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1 | 16       | 1.56          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2 | 16       | 1.56          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2 | 8        | 1.56          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3 | 8        | 1.56          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2 | 9        | 1.56          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3 | 9        | 1.56          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2 | 3        | 1.56          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2 | 8        | 1.56          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2 | 12       | 1.56          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3 | 11       | 1.56          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3 | 8        | 1.56          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 13       | 1.56          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 13       | 1.56          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1 | 20       | 1.56          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1 | 20       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 1        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 2        | 1.56          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 3        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 4        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 5        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 6        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 7        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 8        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 9        | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 10       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 11       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 12       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 13       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 14       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 15       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 16       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 18       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 19       | 1.56          |
| (1,2021) | 1:A:8:GLY:H    | 1:A:9:PRO:HA   | 20       | 1.56          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H   | 8        | 1.56          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H   | 8        | 1.56          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 16       | 1.56          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 16       | 1.56          |
| (1,1572) | 1:A:6:GLN:HA   | 1:A:25:TYR:HB3 | 11       | 1.56          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 2        | 1.55          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 2        | 1.55          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 10       | 1.55          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 20       | 1.55          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 12       | 1.55          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 14       | 1.55          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 18       | 1.55          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 19       | 1.55          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 20       | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 9        | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 9        | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 13       | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 13       | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 15       | 1.55          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 15       | 1.55          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 1        | 1.55          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 1        | 1.55          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1 | 20       | 1.55          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2 | 20       | 1.55          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2 | 14       | 1.55          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3 | 14       | 1.55          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA  | 8        | 1.55          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA  | 9        | 1.55          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG  | 7        | 1.55          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 8        | 1.55          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 18       | 1.55          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1 | 14       | 1.55          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1 | 14       | 1.55          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H   | 12       | 1.55          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H   | 12       | 1.55          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H   | 20       | 1.55          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H   | 20       | 1.55          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 3        | 1.55          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 3        | 1.55          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2 | 4        | 1.55          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3 | 4        | 1.55          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 1        | 1.55          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 5        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 5        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 6        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 6        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 8        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 8        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 9        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 9        | 1.54          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21 | 14       | 1.54          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21 | 14       | 1.54          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 7        | 1.54          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 19       | 1.54          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H    | 14       | 1.54          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3 | 12       | 1.54          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3 | 12       | 1.54          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3 | 12       | 1.54          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2 | 20       | 1.54          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3 | 20       | 1.54          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 15       | 1.54          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 15       | 1.54          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H   | 7        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 4        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 4        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2 | 6        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3 | 6        | 1.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 8        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 8        | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 14       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 14       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 16       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 16       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 18       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 18       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 19       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 19       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 20       | 1.54          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 20       | 1.54          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 18       | 1.54          |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 18       | 1.54          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 7        | 1.54          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 7        | 1.54          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 16       | 1.54          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 16       | 1.54          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 2        | 1.54          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 2        | 1.54          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD1  | 10       | 1.54          |
| (1,4056) | 1:A:21:SER:HB3 | 1:A:25:TYR:HD2  | 10       | 1.54          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA   | 12       | 1.54          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 16       | 1.54          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 18       | 1.54          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 19       | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 8        | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 8        | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 8        | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 8        | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 8        | 1.54          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 8        | 1.54          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 7        | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 7        | 1.54          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 8        | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 8        | 1.54          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 12       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 12       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 16       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 16       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 18       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 18       | 1.54          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 19       | 1.54          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 19       | 1.54          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 9        | 1.54          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 9        | 1.54          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 18       | 1.54          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 18       | 1.54          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 19       | 1.54          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 19       | 1.54          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA2  | 14       | 1.54          |
| (1,1657) | 1:A:6:GLN:HB3  | 1:A:24:GLY:HA3  | 14       | 1.54          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 16       | 1.54          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 7        | 1.53          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 7        | 1.53          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 16       | 1.53          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 16       | 1.53          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 6        | 1.53          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 6        | 1.53          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA    | 16       | 1.53          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H    | 5        | 1.53          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 15       | 1.53          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 15       | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 1        | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 3        | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 5        | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 6        | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 9        | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 11       | 1.53          |
| (1,4799) | 1:A:30:PRO:HB2 | 1:A:32:TYR:H    | 17       | 1.53          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 3        | 1.53          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 3        | 1.53          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 10       | 1.53          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 10       | 1.53          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 20       | 1.53          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 3        | 1.53          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 3        | 1.53          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 17       | 1.53          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 17       | 1.53          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 2        | 1.53          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 12       | 1.53          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 12       | 1.53          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 18       | 1.53          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 18       | 1.53          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA2 | 19       | 1.53          |
| (1,4076) | 1:A:21:SER:HG   | 1:A:27:GLY:HA3 | 19       | 1.53          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 4        | 1.53          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 5        | 1.53          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 14       | 1.53          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 2        | 1.53          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 2        | 1.53          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 2        | 1.53          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 2        | 1.53          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 2        | 1.53          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 2        | 1.53          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 20       | 1.53          |
| (1,3743) | 1:A:18:LEU:HG   | 1:A:27:GLY:HA2 | 14       | 1.53          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 9        | 1.53          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2 | 11       | 1.53          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3 | 11       | 1.53          |
| (1,3322) | 1:A:15:ARG:HB3  | 1:A:16:GLY:HA2 | 16       | 1.53          |
| (1,3322) | 1:A:15:ARG:HB3  | 1:A:16:GLY:HA3 | 16       | 1.53          |
| (1,3170) | 1:A:14:CYS:H    | 1:A:15:ARG:HE  | 7        | 1.53          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG2 | 9        | 1.53          |
| (1,3087) | 1:A:13:GLY:H    | 1:A:15:ARG:HG3 | 9        | 1.53          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 19       | 1.53          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA2 | 9        | 1.53          |
| (1,1657) | 1:A:6:GLN:HB3   | 1:A:24:GLY:HA3 | 9        | 1.53          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG2  | 11       | 1.53          |
| (1,1249) | 1:A:4:ASN:HD21  | 1:A:6:GLN:HG3  | 11       | 1.53          |
| (1,890)  | 1:A:3:PRO:HG2   | 1:A:6:GLN:HE21 | 18       | 1.52          |
| (1,890)  | 1:A:3:PRO:HG3   | 1:A:6:GLN:HE21 | 18       | 1.52          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA   | 12       | 1.52          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 4        | 1.52          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H   | 6        | 1.52          |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H   | 20       | 1.52          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1 | 7        | 1.52          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2 | 7        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ1 | 4        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ2 | 4        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG2  | 1:A:31:LYS:HZ3 | 4        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ1 | 4        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ2 | 4        | 1.52          |
| (1,4820) | 1:A:30:PRO:HG3  | 1:A:31:LYS:HZ3 | 4        | 1.52          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2 | 8        | 1.52          |
| (1,4606) | 1:A:26:CYS:H    | 1:A:27:GLY:HA2 | 2        | 1.52          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 2        | 1.52          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 5        | 1.52          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 5        | 1.52          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 10       | 1.52          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 10       | 1.52          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA2  | 20       | 1.52          |
| (1,4076) | 1:A:21:SER:HG  | 1:A:27:GLY:HA3  | 20       | 1.52          |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3  | 20       | 1.52          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 20       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD11 | 11       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD12 | 11       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD13 | 11       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD21 | 11       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD22 | 11       | 1.52          |
| (1,3454) | 1:A:16:GLY:H   | 1:A:18:LEU:HD23 | 11       | 1.52          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 7        | 1.52          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 7        | 1.52          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H    | 16       | 1.52          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H    | 16       | 1.52          |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 10       | 1.52          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 17       | 1.52          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 17       | 1.52          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 18       | 1.52          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 18       | 1.52          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 19       | 1.51          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 19       | 1.51          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 20       | 1.51          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 20       | 1.51          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 2        | 1.51          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 2        | 1.51          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 3        | 1.51          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 11       | 1.51          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 6        | 1.51          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 6        | 1.51          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 8        | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 18       | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 18       | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 19       | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 19       | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB2  | 20       | 1.51          |
| (1,4850) | 1:A:31:LYS:H   | 1:A:33:CYS:HB3  | 20       | 1.51          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 14       | 1.51          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA2  | 10       | 1.51          |
| (1,4606) | 1:A:26:CYS:H   | 1:A:27:GLY:HA3  | 10       | 1.51          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 2        | 1.51          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 2        | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 2        | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 2        | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 10       | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 10       | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 15       | 1.51          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 15       | 1.51          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 3        | 1.51          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 3        | 1.51          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 20       | 1.51          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 20       | 1.51          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H    | 3        | 1.51          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 3        | 1.51          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 4        | 1.51          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 10       | 1.51          |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 13       | 1.51          |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 13       | 1.51          |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 2        | 1.51          |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 4        | 1.51          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB2  | 17       | 1.51          |
| (1,1573) | 1:A:6:GLN:HA   | 1:A:26:CYS:HB3  | 17       | 1.51          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2  | 9        | 1.51          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3  | 9        | 1.51          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 12       | 1.51          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 17       | 1.51          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 10       | 1.5           |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 10       | 1.5           |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1  | 19       | 1.5           |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 8        | 1.5           |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 8        | 1.5           |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 8        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB2  | 6        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB2  | 6        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB2  | 6        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ1 | 1:A:32:TYR:HB3  | 6        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ2 | 1:A:32:TYR:HB3  | 6        | 1.5           |
| (1,4908) | 1:A:31:LYS:HZ3 | 1:A:32:TYR:HB3  | 6        | 1.5           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H    | 5        | 1.5           |
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE2  | 17       | 1.5           |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4841) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HE3  | 17       | 1.5           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE1  | 14       | 1.5           |
| (1,4786) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HE2  | 14       | 1.5           |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 14       | 1.5           |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 14       | 1.5           |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 13       | 1.5           |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 13       | 1.5           |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE1  | 19       | 1.5           |
| (1,4380) | 1:A:23:TYR:HB2 | 1:A:32:TYR:HE2  | 19       | 1.5           |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 12       | 1.5           |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 5        | 1.5           |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 5        | 1.5           |
| (1,4066) | 1:A:21:SER:HG  | 1:A:22:GLN:HG2  | 3        | 1.5           |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H    | 6        | 1.5           |
| (1,3669) | 1:A:18:LEU:HA  | 1:A:27:GLY:HA3  | 18       | 1.5           |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 1        | 1.5           |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 1        | 1.5           |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 11       | 1.5           |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 11       | 1.5           |
| (1,2424) | 1:A:9:PRO:HD2  | 1:A:11:TRP:HE1  | 15       | 1.5           |
| (1,2424) | 1:A:9:PRO:HD3  | 1:A:11:TRP:HE1  | 15       | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 1        | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 3        | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 5        | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 6        | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 11       | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 13       | 1.5           |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 15       | 1.5           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 19       | 1.5           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 19       | 1.5           |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 1        | 1.5           |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 9        | 1.5           |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 15       | 1.5           |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 20       | 1.5           |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 9        | 1.5           |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 15       | 1.5           |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 20       | 1.5           |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 7        | 1.5           |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 11       | 1.49          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 11       | 1.49          |
| (1,890)  | 1:A:3:PRO:HG2  | 1:A:6:GLN:HE21  | 17       | 1.49          |
| (1,890)  | 1:A:3:PRO:HG3  | 1:A:6:GLN:HE21  | 17       | 1.49          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1 | 13       | 1.49          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 16       | 1.49          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB2 | 16       | 1.49          |
| (1,4850) | 1:A:31:LYS:H    | 1:A:33:CYS:HB3 | 16       | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 2        | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 2        | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 4        | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 4        | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 12       | 1.49          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 12       | 1.49          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE1 | 7        | 1.49          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE2 | 7        | 1.49          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD2 | 8        | 1.49          |
| (1,4431) | 1:A:23:TYR:HE1  | 1:A:31:LYS:HD3 | 8        | 1.49          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD2 | 8        | 1.49          |
| (1,4431) | 1:A:23:TYR:HE2  | 1:A:31:LYS:HD3 | 8        | 1.49          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 11       | 1.49          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 12       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 15       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 15       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 15       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 15       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 15       | 1.49          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 15       | 1.49          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 18       | 1.49          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 19       | 1.49          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 19       | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 8        | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 9        | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 14       | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 18       | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 19       | 1.49          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 20       | 1.49          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 8        | 1.49          |
| (1,1118) | 1:A:4:ASN:HB2   | 1:A:5:GLY:HA3  | 1        | 1.49          |
| (1,1)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 20       | 1.49          |
| (1,610)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ3 | 5        | 1.48          |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE21 | 5        | 1.48          |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE22 | 5        | 1.48          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA   | 4        | 1.48          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 6        | 1.48          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 8        | 1.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1 | 7        | 1.48          |
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1 | 15       | 1.48          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 10       | 1.48          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE1 | 8        | 1.48          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE2 | 8        | 1.48          |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA  | 5        | 1.48          |
| (1,4867) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HA  | 14       | 1.48          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2 | 2        | 1.48          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 8        | 1.48          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 8        | 1.48          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 13       | 1.48          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 13       | 1.48          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE1 | 8        | 1.48          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE2 | 8        | 1.48          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 15       | 1.48          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 4        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 6        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 6        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 6        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 6        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 6        | 1.48          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 6        | 1.48          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3 | 16       | 1.48          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG  | 14       | 1.48          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 9        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 1        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 2        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 3        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 4        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 5        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 6        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 7        | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 10       | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 11       | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 12       | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 13       | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 15       | 1.48          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 16       | 1.48          |
| (1,2526) | 1:A:10:GLY:HA3  | 1:A:12:GLY:H   | 17       | 1.48          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 9        | 1.48          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 12       | 1.48          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 18       | 1.48          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 19       | 1.48          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 20       | 1.48          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1 | 20       | 1.48          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2 | 20       | 1.48          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 8        | 1.48          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 8        | 1.48          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2  | 13       | 1.47          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3  | 13       | 1.47          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2  | 15       | 1.47          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3  | 15       | 1.47          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 1        | 1.47          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 15       | 1.47          |
| (1,547)  | 1:A:1:SER:HB2   | 1:A:11:TRP:HE3 | 9        | 1.47          |
| (1,547)  | 1:A:1:SER:HB3   | 1:A:11:TRP:HE3 | 9        | 1.47          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 7        | 1.47          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD1 | 8        | 1.47          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD2 | 8        | 1.47          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H   | 14       | 1.47          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2 | 4        | 1.47          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE1 | 15       | 1.47          |
| (1,4786) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HE2 | 15       | 1.47          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE1 | 9        | 1.47          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE2 | 9        | 1.47          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1 | 20       | 1.47          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2 | 20       | 1.47          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1 | 17       | 1.47          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2 | 17       | 1.47          |
| (1,4272) | 1:A:22:GLN:HE21 | 1:A:23:TYR:HA  | 9        | 1.47          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 10       | 1.47          |
| (1,3990) | 1:A:20:CYS:HB3  | 1:A:24:GLY:HA2 | 13       | 1.47          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 14       | 1.47          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 7        | 1.47          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB2 | 15       | 1.47          |
| (1,3619) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HB3 | 15       | 1.47          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 7        | 1.47          |
| (1,1956) | 1:A:7:CYS:H     | 1:A:25:TYR:H   | 16       | 1.47          |
| (1,1120) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HA   | 3        | 1.47          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 4        | 1.47          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 12       | 1.46          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 12       | 1.46          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 6        | 1.46          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA    | 18       | 1.46          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 19       | 1.46          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 20       | 1.46          |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H    | 13       | 1.46          |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H    | 15       | 1.46          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1  | 8        | 1.46          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2  | 8        | 1.46          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3  | 8        | 1.46          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 17       | 1.46          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 17       | 1.46          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2  | 15       | 1.46          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 1        | 1.46          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 1        | 1.46          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 15       | 1.46          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 15       | 1.46          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 19       | 1.46          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 19       | 1.46          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 9        | 1.46          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 1        | 1.46          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 14       | 1.46          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 14       | 1.46          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 14       | 1.46          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2  | 1        | 1.46          |
| (1,3990) | 1:A:20:CYS:HB3 | 1:A:24:GLY:HA2  | 2        | 1.46          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H    | 5        | 1.46          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3  | 15       | 1.46          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 11       | 1.46          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 14       | 1.46          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 3        | 1.46          |
| (1,1118) | 1:A:4:ASN:HB2  | 1:A:5:GLY:HA3   | 14       | 1.46          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 8        | 1.46          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 18       | 1.46          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 16       | 1.45          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 16       | 1.45          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 5        | 1.45          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 10       | 1.45          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 12       | 1.45          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 13       | 1.45          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H    | 2        | 1.45          |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H    | 4        | 1.45          |
| (1,4877) | 1:A:31:LYS:HG2 | 1:A:35:HIS:HE1  | 20       | 1.45          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2  | 13       | 1.45          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2  | 12       | 1.45          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3  | 12       | 1.45          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 18       | 1.45          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 18       | 1.45          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 7        | 1.45          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 7        | 1.45          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 17       | 1.45          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 17       | 1.45          |
| (1,4066) | 1:A:21:SER:HG  | 1:A:22:GLN:HG2  | 10       | 1.45          |
| (1,3704) | 1:A:18:LEU:HB3 | 1:A:19:CYS:HB2  | 14       | 1.45          |
| (1,3394) | 1:A:15:ARG:HD2 | 1:A:18:LEU:H    | 1        | 1.45          |
| (1,3394) | 1:A:15:ARG:HD3 | 1:A:18:LEU:H    | 1        | 1.45          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 14       | 1.45          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 14       | 1.45          |
| (1,1956) | 1:A:7:CYS:H    | 1:A:25:TYR:H    | 14       | 1.45          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 9        | 1.45          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 8        | 1.44          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 8        | 1.44          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 7        | 1.44          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG2  | 11       | 1.44          |
| (1,553)  | 1:A:1:SER:HB2  | 1:A:15:ARG:HG3  | 11       | 1.44          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG2  | 11       | 1.44          |
| (1,553)  | 1:A:1:SER:HB3  | 1:A:15:ARG:HG3  | 11       | 1.44          |
| (1,4923) | 1:A:32:TYR:HB2 | 1:A:34:ALA:H    | 8        | 1.44          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 3        | 1.44          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 3        | 1.44          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 13       | 1.44          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 6        | 1.44          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 6        | 1.44          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 6        | 1.44          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 6        | 1.44          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 6        | 1.44          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 6        | 1.44          |
| (1,4817) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HD2  | 4        | 1.44          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 4        | 1.44          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 15       | 1.44          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1  | 5        | 1.44          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2  | 5        | 1.44          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1 | 13       | 1.44          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2 | 13       | 1.44          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA  | 13       | 1.44          |
| (1,4103) | 1:A:22:GLN:H    | 1:A:23:TYR:HB2 | 20       | 1.44          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 7        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 5        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 5        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 5        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 5        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 5        | 1.44          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 5        | 1.44          |
| (1,3669) | 1:A:18:LEU:HA   | 1:A:27:GLY:HA3 | 16       | 1.44          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H   | 5        | 1.44          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H   | 5        | 1.44          |
| (1,3290) | 1:A:15:ARG:HB2  | 1:A:16:GLY:HA2 | 1        | 1.44          |
| (1,3290) | 1:A:15:ARG:HB2  | 1:A:16:GLY:HA3 | 1        | 1.44          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 18       | 1.44          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 18       | 1.44          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 11       | 1.44          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 13       | 1.44          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 15       | 1.44          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 16       | 1.44          |
| (1,1179) | 1:A:4:ASN:HB3   | 1:A:5:GLY:HA3  | 4        | 1.44          |
| (1,112)  | 1:A:29:GLY:H    | 1:A:33:CYS:HB3 | 7        | 1.44          |
| (1,1)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3  | 19       | 1.44          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2  | 1        | 1.43          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3  | 1        | 1.43          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2  | 7        | 1.43          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3  | 7        | 1.43          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 18       | 1.43          |
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1 | 9        | 1.43          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 12       | 1.43          |
| (1,4923) | 1:A:32:TYR:HB2  | 1:A:34:ALA:H   | 14       | 1.43          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE1 | 11       | 1.43          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE2 | 11       | 1.43          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE1 | 19       | 1.43          |
| (1,4489) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HE2 | 19       | 1.43          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1 | 11       | 1.43          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2 | 11       | 1.43          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1 | 18       | 1.43          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2 | 18       | 1.43          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1 | 19       | 1.43          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2 | 19       | 1.43          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 8        | 1.43          |
| (1,3833) | 1:A:19:CYS:H    | 1:A:28:SER:H   | 10       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2 | 17       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2 | 17       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2 | 17       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3 | 17       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3 | 17       | 1.43          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3 | 17       | 1.43          |
| (1,3493) | 1:A:16:GLY:HA2  | 1:A:18:LEU:HG  | 8        | 1.43          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB2 | 20       | 1.43          |
| (1,1441) | 1:A:5:GLY:H     | 1:A:26:CYS:HB3 | 20       | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 1        | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 7        | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 8        | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 9        | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 12       | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 18       | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 19       | 1.43          |
| (1,1393) | 1:A:5:GLY:H     | 1:A:6:GLN:HA   | 20       | 1.43          |
| (1,1120) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HA   | 4        | 1.43          |
| (1,112)  | 1:A:29:GLY:H    | 1:A:33:CYS:HB3 | 6        | 1.43          |
| (1,112)  | 1:A:29:GLY:H    | 1:A:33:CYS:HB3 | 9        | 1.43          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2  | 9        | 1.42          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3  | 9        | 1.42          |
| (1,597)  | 1:A:2:GLY:H     | 1:A:4:ASN:H    | 16       | 1.42          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE1 | 8        | 1.42          |
| (1,4884) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HE2 | 8        | 1.42          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD1 | 15       | 1.42          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD2 | 15       | 1.42          |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H   | 5        | 1.42          |
| (1,4880) | 1:A:31:LYS:HG3  | 1:A:32:TYR:H   | 19       | 1.42          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1 | 5        | 1.42          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2 | 5        | 1.42          |
| (1,4066) | 1:A:21:SER:HG   | 1:A:22:GLN:HG2 | 15       | 1.42          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 1        | 1.42          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 9        | 1.42          |
| (1,3880) | 1:A:19:CYS:HB2  | 1:A:32:TYR:H   | 11       | 1.42          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG  | 2        | 1.42          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE1 | 14       | 1.42          |
| (1,1660) | 1:A:6:GLN:HB3   | 1:A:25:TYR:HE2 | 14       | 1.42          |
| (1,1572) | 1:A:6:GLN:HA    | 1:A:25:TYR:HB3 | 17       | 1.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2 | 16       | 1.42          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3 | 16       | 1.42          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2 | 19       | 1.42          |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3 | 19       | 1.42          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3  | 3        | 1.42          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 3        | 1.42          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 5        | 1.42          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 15       | 1.42          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2  | 18       | 1.41          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3  | 18       | 1.41          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2  | 19       | 1.41          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3  | 19       | 1.41          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2  | 20       | 1.41          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3  | 20       | 1.41          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H    | 2        | 1.41          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 4        | 1.41          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 5        | 1.41          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 3        | 1.41          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 3        | 1.41          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 6        | 1.41          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 6        | 1.41          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 7        | 1.41          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 16       | 1.41          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 20       | 1.41          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1 | 17       | 1.41          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2 | 17       | 1.41          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 20       | 1.41          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 20       | 1.41          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 4        | 1.41          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 15       | 1.41          |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 17       | 1.41          |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 17       | 1.41          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA   | 17       | 1.41          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 1        | 1.41          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 11       | 1.41          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 13       | 1.41          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 9        | 1.4           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 8        | 1.4           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 8        | 1.4           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 8        | 1.4           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 8        | 1.4           |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 3        | 1.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 6        | 1.4           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 6        | 1.4           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 12       | 1.4           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 12       | 1.4           |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 7        | 1.4           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 4        | 1.4           |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 7        | 1.4           |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 18       | 1.4           |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 19       | 1.4           |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 2        | 1.4           |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 13       | 1.4           |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 17       | 1.4           |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H   | 3        | 1.4           |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H   | 4        | 1.4           |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H   | 6        | 1.4           |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H   | 12       | 1.4           |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H   | 14       | 1.4           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB2 | 11       | 1.4           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB2 | 11       | 1.4           |
| (1,3376) | 1:A:15:ARG:HG2 | 1:A:26:CYS:HB3 | 11       | 1.4           |
| (1,3376) | 1:A:15:ARG:HG3 | 1:A:26:CYS:HB3 | 11       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 1        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 1        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 2        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 2        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 3        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 3        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 4        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 4        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 5        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 5        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 6        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 6        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 7        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 7        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 8        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 8        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 9        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 9        | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 10       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 10       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 11       | 1.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 11       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 12       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 12       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 13       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 13       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 14       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 14       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 15       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 15       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 16       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 16       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 18       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 18       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 19       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 19       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB2  | 20       | 1.4           |
| (1,2077) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HB3  | 20       | 1.4           |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB2 | 7        | 1.4           |
| (1,1441) | 1:A:5:GLY:H    | 1:A:26:CYS:HB3 | 7        | 1.4           |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 1        | 1.4           |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA   | 20       | 1.4           |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 2        | 1.4           |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 4        | 1.4           |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 8        | 1.4           |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2  | 4        | 1.39          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3  | 4        | 1.39          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 14       | 1.39          |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 20       | 1.39          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 10       | 1.39          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 10       | 1.39          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 10       | 1.39          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 2        | 1.39          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 2        | 1.39          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 4        | 1.39          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 4        | 1.39          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 9        | 1.39          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 9        | 1.39          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 17       | 1.39          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 17       | 1.39          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 8        | 1.39          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 9        | 1.39          |
| (1,4247) | 1:A:22:GLN:HG3 | 1:A:24:GLY:H   | 16       | 1.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 18       | 1.39          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 18       | 1.39          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 2        | 1.39          |
| (1,3493) | 1:A:16:GLY:HA2 | 1:A:18:LEU:HG   | 12       | 1.39          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 11       | 1.39          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 11       | 1.39          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 17       | 1.39          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 17       | 1.39          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 8        | 1.39          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 8        | 1.39          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 13       | 1.39          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 13       | 1.39          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA    | 2        | 1.39          |
| (1,1120) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HA    | 15       | 1.39          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 12       | 1.39          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 17       | 1.39          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H     | 9        | 1.38          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 1        | 1.38          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 1        | 1.38          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1  | 11       | 1.38          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2  | 11       | 1.38          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2  | 9        | 1.38          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 5        | 1.38          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 5        | 1.38          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 5        | 1.38          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 5        | 1.38          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 13       | 1.38          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 15       | 1.38          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 20       | 1.38          |
| (1,3745) | 1:A:18:LEU:HG  | 1:A:28:SER:HB3  | 10       | 1.38          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 3        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 1        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 1        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 2        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 2        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 3        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 3        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 4        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 4        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 5        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3  | 5        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2  | 6        | 1.38          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 6        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 7        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 7        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 8        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 8        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 9        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 9        | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 10       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 10       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 11       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 11       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 12       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 12       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 13       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 13       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 14       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 14       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 15       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 15       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 16       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 16       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 18       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 18       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 19       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 19       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA2 | 20       | 1.38          |
| (1,2245) | 1:A:9:PRO:HB3  | 1:A:10:GLY:HA3 | 20       | 1.38          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA   | 4        | 1.38          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA   | 6        | 1.38          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA   | 10       | 1.38          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3 | 14       | 1.38          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA  | 16       | 1.37          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 10       | 1.37          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 9        | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1 | 13       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2 | 13       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1 | 17       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2 | 17       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1 | 19       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2 | 19       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1 | 20       | 1.37          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2 | 20       | 1.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H    | 10       | 1.37          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 8        | 1.37          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 18       | 1.37          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 10       | 1.37          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 10       | 1.37          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 9        | 1.37          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 9        | 1.37          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 2        | 1.37          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 2        | 1.37          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 5        | 1.37          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 5        | 1.37          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA    | 3        | 1.37          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA    | 5        | 1.37          |
| (1,1393) | 1:A:5:GLY:H    | 1:A:6:GLN:HA    | 14       | 1.37          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H     | 14       | 1.37          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 2        | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 2        | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 3        | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 3        | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 14       | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 14       | 1.36          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1  | 14       | 1.36          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 19       | 1.36          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2  | 1        | 1.36          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2  | 12       | 1.36          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2  | 13       | 1.36          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2  | 15       | 1.36          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 18       | 1.36          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 18       | 1.36          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 1        | 1.36          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 19       | 1.36          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 16       | 1.36          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 16       | 1.36          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 5        | 1.36          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 5        | 1.36          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 14       | 1.36          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 14       | 1.36          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 14       | 1.36          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 7        | 1.36          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 7        | 1.36          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 6        | 1.36          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 6        | 1.36          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1395) | 1:A:5:GLY:H     | 1:A:6:GLN:HG3   | 5        | 1.36          |
| (1,1395) | 1:A:5:GLY:H     | 1:A:6:GLN:HG3   | 6        | 1.36          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2   | 10       | 1.35          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG3   | 10       | 1.35          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA    | 3        | 1.35          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1  | 3        | 1.35          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H    | 10       | 1.35          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 5        | 1.35          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 6        | 1.35          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1  | 9        | 1.35          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2  | 9        | 1.35          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD1  | 7        | 1.35          |
| (1,4135) | 1:A:22:GLN:HA   | 1:A:23:TYR:HD2  | 7        | 1.35          |
| (1,3833) | 1:A:19:CYS:H    | 1:A:28:SER:H    | 11       | 1.35          |
| (1,3833) | 1:A:19:CYS:H    | 1:A:28:SER:H    | 16       | 1.35          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 5        | 1.35          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 6        | 1.35          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 17       | 1.35          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1  | 13       | 1.35          |
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB2  | 10       | 1.35          |
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB3  | 10       | 1.35          |
| (1,600)  | 1:A:2:GLY:H     | 1:A:6:GLN:HA    | 14       | 1.34          |
| (1,4942) | 1:A:35:HIS:HB2  | 1:A:35:HIS:HE1  | 10       | 1.34          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD1  | 1        | 1.34          |
| (1,4868) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HD2  | 1        | 1.34          |
| (1,4866) | 1:A:31:LYS:HG2  | 1:A:32:TYR:H    | 2        | 1.34          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 1        | 1.34          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 3        | 1.34          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 7        | 1.34          |
| (1,4813) | 1:A:30:PRO:HB3  | 1:A:33:CYS:HB2  | 11       | 1.34          |
| (1,4650) | 1:A:26:CYS:HB2  | 1:A:27:GLY:HA2  | 11       | 1.34          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD1  | 8        | 1.34          |
| (1,4360) | 1:A:23:TYR:HA   | 1:A:25:TYR:HD2  | 8        | 1.34          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG2  | 16       | 1.34          |
| (1,4291) | 1:A:22:GLN:HE21 | 1:A:31:LYS:HG3  | 16       | 1.34          |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA   | 17       | 1.34          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB2  | 7        | 1.34          |
| (1,3523) | 1:A:16:GLY:HA3  | 1:A:18:LEU:HB3  | 7        | 1.34          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 13       | 1.34          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 13       | 1.34          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 13       | 1.34          |
| (1,953)  | 1:A:3:PRO:HD2   | 1:A:6:GLN:HG2   | 6        | 1.33          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 6        | 1.33          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 17       | 1.33          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 17       | 1.33          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 4        | 1.33          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1  | 15       | 1.33          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2  | 15       | 1.33          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3  | 15       | 1.33          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 7        | 1.33          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 16       | 1.33          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 16       | 1.33          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 12       | 1.33          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 12       | 1.33          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD1  | 10       | 1.33          |
| (1,4196) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HD2  | 10       | 1.33          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 2        | 1.33          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 10       | 1.33          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 7        | 1.33          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 9        | 1.33          |
| (1,3833) | 1:A:19:CYS:H   | 1:A:28:SER:H    | 17       | 1.33          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 18       | 1.33          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 18       | 1.33          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 19       | 1.33          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 19       | 1.33          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 4        | 1.33          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 2        | 1.33          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 3        | 1.33          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 5        | 1.33          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 6        | 1.33          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1  | 10       | 1.33          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 14       | 1.33          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 14       | 1.33          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 14       | 1.33          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 2        | 1.33          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 10       | 1.33          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG2   | 5        | 1.32          |
| (1,953)  | 1:A:3:PRO:HD2  | 1:A:6:GLN:HG3   | 5        | 1.32          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 3        | 1.32          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 13       | 1.32          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 14       | 1.32          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 3        | 1.32          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 3        | 1.32          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1  | 2        | 1.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 2        | 1.32          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 2        | 1.32          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 9        | 1.32          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 11       | 1.32          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 18       | 1.32          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 18       | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2 | 2        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3 | 2        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2 | 5        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3 | 5        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2 | 7        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3 | 7        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2 | 9        | 1.32          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3 | 9        | 1.32          |
| (1,4263) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HA  | 1        | 1.32          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 14       | 1.32          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 14       | 1.32          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2 | 20       | 1.32          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3 | 20       | 1.32          |
| (1,3421) | 1:A:15:ARG:HE  | 1:A:17:GLY:H   | 4        | 1.32          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 5        | 1.32          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 5        | 1.32          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1 | 4        | 1.32          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1 | 9        | 1.32          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1 | 14       | 1.32          |
| (1,2579) | 1:A:11:TRP:H   | 1:A:11:TRP:HE1 | 20       | 1.32          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 8        | 1.31          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 8        | 1.31          |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 8        | 1.31          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2 | 17       | 1.31          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3 | 17       | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 2        | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 2        | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 4        | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 4        | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD1 | 14       | 1.31          |
| (1,4834) | 1:A:30:PRO:HD2 | 1:A:32:TYR:HD2 | 14       | 1.31          |
| (1,4830) | 1:A:30:PRO:HG2 | 1:A:35:HIS:HE1 | 12       | 1.31          |
| (1,4830) | 1:A:30:PRO:HG3 | 1:A:35:HIS:HE1 | 12       | 1.31          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 17       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2 | 1        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3 | 1        | 1.31          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 3        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 3        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 4        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 4        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 6        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 6        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 8        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 8        | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 11       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 11       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 12       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 12       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 13       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 13       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 14       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 14       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 15       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 15       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 16       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 16       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 17       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 17       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 18       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 18       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 19       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 19       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA2  | 20       | 1.31          |
| (1,4722) | 1:A:28:SER:H   | 1:A:29:GLY:HA3  | 20       | 1.31          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 10       | 1.31          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 10       | 1.31          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 5        | 1.31          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 16       | 1.31          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 10       | 1.31          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 10       | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 8        | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 8        | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 9        | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 9        | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB2  | 12       | 1.31          |
| (1,3523) | 1:A:16:GLY:HA3 | 1:A:18:LEU:HB3  | 12       | 1.31          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 1        | 1.31          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 1        | 1.31          |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,3289) | 1:A:15:ARG:HB2  | 1:A:15:ARG:HE  | 8        | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 7        | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 8        | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 12       | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 15       | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 16       | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 17       | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 18       | 1.31          |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 19       | 1.31          |
| (1,160)  | 1:A:7:CYS:HA    | 1:A:11:TRP:HB3 | 17       | 1.31          |
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB2 | 3        | 1.31          |
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB3 | 3        | 1.31          |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE21 | 11       | 1.3           |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE22 | 11       | 1.3           |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE21 | 16       | 1.3           |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE22 | 16       | 1.3           |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1 | 12       | 1.3           |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2 | 12       | 1.3           |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1 | 13       | 1.3           |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2 | 13       | 1.3           |
| (1,4777) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB2 | 8        | 1.3           |
| (1,4722) | 1:A:28:SER:H    | 1:A:29:GLY:HA2 | 10       | 1.3           |
| (1,4722) | 1:A:28:SER:H    | 1:A:29:GLY:HA3 | 10       | 1.3           |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD1 | 12       | 1.3           |
| (1,4462) | 1:A:24:GLY:HA2  | 1:A:25:TYR:HD2 | 12       | 1.3           |
| (1,4336) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HA  | 1        | 1.3           |
| (1,4263) | 1:A:22:GLN:HG3  | 1:A:32:TYR:HA  | 20       | 1.3           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB2 | 20       | 1.3           |
| (1,4154) | 1:A:22:GLN:HA   | 1:A:35:HIS:HB3 | 20       | 1.3           |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2 | 3        | 1.3           |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2 | 4        | 1.3           |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2 | 6        | 1.3           |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2 | 17       | 1.3           |
| (1,3779) | 1:A:18:LEU:HD11 | 1:A:27:GLY:HA3 | 14       | 1.3           |
| (1,3779) | 1:A:18:LEU:HD12 | 1:A:27:GLY:HA3 | 14       | 1.3           |
| (1,3779) | 1:A:18:LEU:HD13 | 1:A:27:GLY:HA3 | 14       | 1.3           |
| (1,3716) | 1:A:18:LEU:HB3  | 1:A:28:SER:H   | 14       | 1.3           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2 | 8        | 1.3           |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3 | 8        | 1.3           |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 1        | 1.3           |
| (1,2579) | 1:A:11:TRP:H    | 1:A:11:TRP:HE1 | 11       | 1.3           |
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB2 | 4        | 1.3           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1506) | 1:A:6:GLN:H     | 1:A:11:TRP:HB3  | 4        | 1.3           |
| (1,610)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ3  | 4        | 1.29          |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE21  | 19       | 1.29          |
| (1,601)  | 1:A:2:GLY:H     | 1:A:6:GLN:HE22  | 19       | 1.29          |
| (1,4944) | 1:A:35:HIS:HB3  | 1:A:35:HIS:HE1  | 1        | 1.29          |
| (1,4929) | 1:A:32:TYR:HD1  | 1:A:35:HIS:HB3  | 19       | 1.29          |
| (1,4929) | 1:A:32:TYR:HD2  | 1:A:35:HIS:HB3  | 19       | 1.29          |
| (1,4920) | 1:A:32:TYR:HA   | 1:A:35:HIS:H    | 7        | 1.29          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1  | 8        | 1.29          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2  | 8        | 1.29          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD1  | 15       | 1.29          |
| (1,4834) | 1:A:30:PRO:HD2  | 1:A:32:TYR:HD2  | 15       | 1.29          |
| (1,4814) | 1:A:30:PRO:HB3  | 1:A:34:ALA:H    | 16       | 1.29          |
| (1,4777) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB2  | 5        | 1.29          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE1  | 12       | 1.29          |
| (1,4503) | 1:A:25:TYR:H    | 1:A:25:TYR:HE2  | 12       | 1.29          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 6        | 1.29          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 6        | 1.29          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE21 | 1        | 1.29          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE22 | 1        | 1.29          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE21 | 8        | 1.29          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE22 | 8        | 1.29          |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2  | 2        | 1.29          |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2  | 5        | 1.29          |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2  | 10       | 1.29          |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2  | 12       | 1.29          |
| (1,4070) | 1:A:21:SER:HG   | 1:A:24:GLY:HA2  | 14       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD1  | 16       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD2  | 16       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD1  | 18       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD2  | 18       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD1  | 19       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD2  | 19       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD1  | 20       | 1.29          |
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD2  | 20       | 1.29          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2  | 9        | 1.29          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3  | 9        | 1.29          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG2  | 18       | 1.29          |
| (1,3146) | 1:A:13:GLY:HA3  | 1:A:15:ARG:HG3  | 18       | 1.29          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 17       | 1.29          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 17       | 1.29          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 17       | 1.29          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 4        | 1.28          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 4        | 1.28          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 12       | 1.28          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 12       | 1.28          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA    | 6        | 1.28          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 16       | 1.28          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1  | 14       | 1.28          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2  | 14       | 1.28          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3  | 14       | 1.28          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 2        | 1.28          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 5        | 1.28          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 5        | 1.28          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 14       | 1.28          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 14       | 1.28          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 16       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 1        | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 8        | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 11       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 13       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 15       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 16       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 18       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 19       | 1.28          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2  | 20       | 1.28          |
| (1,3589) | 1:A:17:GLY:HA2 | 1:A:18:LEU:HG   | 15       | 1.28          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2  | 20       | 1.28          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3  | 20       | 1.28          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 12       | 1.28          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 12       | 1.28          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 12       | 1.28          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 1        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 2        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 3        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 4        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 5        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 6        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 7        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 8        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 9        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 10       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 11       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H     | 12       | 1.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 13       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 15       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 16       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 17       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 18       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 19       | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 20       | 1.27          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 14       | 1.27          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 14       | 1.27          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 14       | 1.27          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 7        | 1.27          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 7        | 1.27          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 13       | 1.27          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 13       | 1.27          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 17       | 1.27          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 16       | 1.27          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 16       | 1.27          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG2 | 1        | 1.27          |
| (1,4838) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HG3 | 1        | 1.27          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H   | 12       | 1.27          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 9        | 1.27          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2 | 7        | 1.27          |
| (1,4070) | 1:A:21:SER:HG  | 1:A:24:GLY:HA2 | 9        | 1.27          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1 | 3        | 1.27          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2 | 3        | 1.27          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 16       | 1.27          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 18       | 1.27          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 19       | 1.27          |
| (1,3880) | 1:A:19:CYS:HB2 | 1:A:32:TYR:H   | 20       | 1.27          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 2        | 1.27          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 2        | 1.27          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 3        | 1.27          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 3        | 1.27          |
| (1,679)  | 1:A:2:GLY:HA2  | 1:A:5:GLY:H    | 14       | 1.26          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 7        | 1.26          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 7        | 1.26          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 2        | 1.26          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 2        | 1.26          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 2        | 1.26          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 2        | 1.26          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 3        | 1.26          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 7        | 1.26          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4849) | 1:A:30:PRO:HD3 | 1:A:35:HIS:HE1 | 12       | 1.26          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 11       | 1.26          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 14       | 1.26          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 14       | 1.26          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 2        | 1.26          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 2        | 1.26          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 17       | 1.26          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1 | 6        | 1.26          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2 | 6        | 1.26          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 4        | 1.26          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 4        | 1.26          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2 | 10       | 1.26          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3 | 10       | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 1        | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 1        | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 11       | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 11       | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 13       | 1.26          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 13       | 1.26          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 4        | 1.26          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 4        | 1.26          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 19       | 1.26          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 19       | 1.26          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG2 | 12       | 1.26          |
| (1,3146) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HG3 | 12       | 1.26          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 1        | 1.26          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 13       | 1.26          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 15       | 1.26          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2  | 17       | 1.26          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3  | 17       | 1.26          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 14       | 1.25          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 14       | 1.25          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 2        | 1.25          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H   | 9        | 1.25          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 13       | 1.25          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 13       | 1.25          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 13       | 1.25          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 16       | 1.25          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 16       | 1.25          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 11       | 1.25          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 16       | 1.25          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 16       | 1.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 5        | 1.25          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 5        | 1.25          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 6        | 1.25          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 13       | 1.25          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 13       | 1.25          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 6        | 1.25          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 6        | 1.25          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1 | 11       | 1.25          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2 | 11       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 7        | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 8        | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 11       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 12       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 16       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 18       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 19       | 1.25          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 20       | 1.25          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 9        | 1.25          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 20       | 1.25          |
| (1,597)  | 1:A:2:GLY:H    | 1:A:4:ASN:H    | 17       | 1.24          |
| (1,4944) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HE1 | 12       | 1.24          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1 | 8        | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 4        | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 4        | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 4        | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 15       | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 15       | 1.24          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 15       | 1.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 9        | 1.24          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 9        | 1.24          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 15       | 1.24          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 4        | 1.24          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 14       | 1.24          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 2        | 1.24          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1 | 13       | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 2        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 3        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 4        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 5        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 6        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 9        | 1.24          |
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 10       | 1.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,160)  | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 14       | 1.24          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H     | 3        | 1.24          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 16       | 1.24          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 18       | 1.24          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 19       | 1.24          |
| (1,112)  | 1:A:29:GLY:H   | 1:A:33:CYS:HB3  | 20       | 1.24          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 4        | 1.24          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA    | 17       | 1.23          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 20       | 1.23          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 5        | 1.23          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1  | 12       | 1.23          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2  | 12       | 1.23          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3  | 12       | 1.23          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 2        | 1.23          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 8        | 1.23          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 13       | 1.23          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 8        | 1.23          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 8        | 1.23          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 9        | 1.23          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 9        | 1.23          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 4        | 1.23          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 4        | 1.23          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 12       | 1.23          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 12       | 1.23          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 14       | 1.23          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 14       | 1.23          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 7        | 1.23          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 7        | 1.23          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 11       | 1.23          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 11       | 1.23          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 3        | 1.23          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H     | 1        | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 7        | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 11       | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 13       | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 16       | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 18       | 1.23          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 19       | 1.23          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 11       | 1.22          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 13       | 1.22          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 13       | 1.22          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 18       | 1.22          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 18       | 1.22          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 11       | 1.22          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 17       | 1.22          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 18       | 1.22          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 6        | 1.22          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 11       | 1.22          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 9        | 1.22          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 17       | 1.22          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 17       | 1.22          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 17       | 1.22          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 17       | 1.22          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 17       | 1.22          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 17       | 1.22          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 12       | 1.22          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 2        | 1.22          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 2        | 1.22          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 4        | 1.22          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 4        | 1.22          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 6        | 1.22          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 6        | 1.22          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 17       | 1.22          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 17       | 1.22          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 16       | 1.22          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 16       | 1.22          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 15       | 1.22          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 15       | 1.22          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 15       | 1.22          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 19       | 1.22          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 8        | 1.22          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 12       | 1.22          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 17       | 1.22          |
| (1,4942) | 1:A:35:HIS:HB2 | 1:A:35:HIS:HE1  | 6        | 1.21          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 1        | 1.21          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 3        | 1.21          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB2  | 19       | 1.21          |
| (1,4891) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HB3  | 19       | 1.21          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 14       | 1.21          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 14       | 1.21          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 15       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 4        | 1.21          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 4        | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 8        | 1.21          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 8        | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 12       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 12       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 13       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 13       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 14       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 14       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA   | 15       | 1.21          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA   | 15       | 1.21          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 2        | 1.21          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 4        | 1.21          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1  | 4        | 1.21          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2  | 4        | 1.21          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3  | 4        | 1.21          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 16       | 1.21          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 10       | 1.21          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 10       | 1.21          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 3        | 1.21          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 3        | 1.21          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 4        | 1.21          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 4        | 1.21          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1  | 6        | 1.21          |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2  | 6        | 1.21          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 14       | 1.21          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 14       | 1.21          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 17       | 1.21          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 17       | 1.21          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 3        | 1.21          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 7        | 1.21          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 12       | 1.21          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 5        | 1.21          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 5        | 1.21          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 11       | 1.21          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 11       | 1.21          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 17       | 1.21          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 17       | 1.21          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 9        | 1.21          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 1        | 1.21          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 1        | 1.21          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 1        | 1.21          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 18       | 1.21          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H     | 4        | 1.21          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 10       | 1.2           |
| (1,4920) | 1:A:32:TYR:HA  | 1:A:35:HIS:H   | 16       | 1.2           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1 | 12       | 1.2           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2 | 12       | 1.2           |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3 | 12       | 1.2           |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA  | 14       | 1.2           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 18       | 1.2           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 19       | 1.2           |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 2        | 1.2           |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 2        | 1.2           |
| (1,4816) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HB2 | 10       | 1.2           |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 14       | 1.2           |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 16       | 1.2           |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 13       | 1.2           |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD1 | 3        | 1.2           |
| (1,4462) | 1:A:24:GLY:HA2 | 1:A:25:TYR:HD2 | 3        | 1.2           |
| (1,4246) | 1:A:22:GLN:HG3 | 1:A:23:TYR:HB3 | 16       | 1.2           |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 18       | 1.2           |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H   | 3        | 1.2           |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H   | 4        | 1.2           |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H   | 6        | 1.2           |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 3        | 1.2           |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 14       | 1.2           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1 | 15       | 1.2           |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2 | 15       | 1.2           |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 15       | 1.19          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 15       | 1.19          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 20       | 1.19          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 20       | 1.19          |
| (1,600)  | 1:A:2:GLY:H    | 1:A:6:GLN:HA   | 5        | 1.19          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H   | 17       | 1.19          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H   | 6        | 1.19          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 18       | 1.19          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 18       | 1.19          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 19       | 1.19          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 20       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 1        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 1        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 3        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 3        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 5        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 5        | 1.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 6        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 6        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 7        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 7        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 9        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 9        | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 10       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 10       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 11       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 11       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 17       | 1.19          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 17       | 1.19          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 18       | 1.19          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1 | 10       | 1.19          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2 | 10       | 1.19          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 1        | 1.19          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 13       | 1.19          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H   | 14       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 7        | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 7        | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 15       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 15       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 18       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 18       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 19       | 1.19          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 19       | 1.19          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3  | 4        | 1.19          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3  | 7        | 1.19          |
| (1,1247) | 1:A:4:ASN:HD21 | 1:A:6:GLN:H    | 15       | 1.19          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 19       | 1.18          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 19       | 1.18          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 10       | 1.18          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 16       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 16       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 16       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 18       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 18       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 19       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 19       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HA  | 20       | 1.18          |
| (1,4819) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HA  | 20       | 1.18          |
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2 | 19       | 1.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4813) | 1:A:30:PRO:HB3 | 1:A:33:CYS:HB2  | 20       | 1.18          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE1  | 2        | 1.18          |
| (1,4489) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HE2  | 2        | 1.18          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 1        | 1.18          |
| (1,4212) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HD2  | 11       | 1.18          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 3        | 1.18          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 5        | 1.18          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 5        | 1.18          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 8        | 1.18          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 7        | 1.18          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 8        | 1.18          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 9        | 1.18          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 8        | 1.18          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 8        | 1.18          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2  | 6        | 1.18          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3  | 6        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 2        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 2        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 3        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 3        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 4        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 4        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 8        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 8        | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 10       | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 10       | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 20       | 1.18          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 20       | 1.18          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 6        | 1.18          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 13       | 1.18          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE   | 20       | 1.18          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE1  | 1        | 1.18          |
| (1,1660) | 1:A:6:GLN:HB3  | 1:A:25:TYR:HE2  | 1        | 1.18          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 14       | 1.18          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 16       | 1.18          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 2        | 1.18          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 15       | 1.17          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1  | 13       | 1.17          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2  | 13       | 1.17          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3  | 13       | 1.17          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1  | 11       | 1.17          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2  | 11       | 1.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 14       | 1.17          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 4        | 1.17          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 4        | 1.17          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 6        | 1.17          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 6        | 1.17          |
| (1,4271) | 1:A:22:GLN:HG3 | 1:A:35:HIS:HE1  | 7        | 1.17          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2  | 13       | 1.17          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3  | 13       | 1.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 13       | 1.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 13       | 1.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 18       | 1.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 18       | 1.17          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB2  | 1        | 1.17          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB3  | 1        | 1.17          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 1        | 1.17          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 1        | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 1        | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 11       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 13       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 15       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 16       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 17       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 18       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 19       | 1.17          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 20       | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 1        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 1        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 4        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 4        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 7        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 7        | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 11       | 1.17          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 11       | 1.17          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 3        | 1.17          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 4        | 1.17          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2  | 5        | 1.17          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3  | 5        | 1.17          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 9        | 1.17          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 9        | 1.17          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 12       | 1.17          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 12       | 1.17          |
| (1,3)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 10       | 1.17          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 11       | 1.17          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 11       | 1.17          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 11       | 1.17          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 8        | 1.17          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 6        | 1.17          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 10       | 1.17          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 1        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 2        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 3        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 4        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 5        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 6        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 7        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 8        | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 10       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 11       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 12       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 13       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 14       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 15       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 16       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 17       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 19       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 20       | 1.16          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 4        | 1.16          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1  | 4        | 1.16          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2  | 4        | 1.16          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3  | 4        | 1.16          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 18       | 1.16          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 19       | 1.16          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 20       | 1.16          |
| (1,4880) | 1:A:31:LYS:HG3 | 1:A:32:TYR:H    | 16       | 1.16          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 18       | 1.16          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE1  | 3        | 1.16          |
| (1,4503) | 1:A:25:TYR:H   | 1:A:25:TYR:HE2  | 3        | 1.16          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2  | 4        | 1.16          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3  | 4        | 1.16          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2  | 7        | 1.16          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3  | 7        | 1.16          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 2        | 1.16          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 5        | 1.16          |
| (1,4073) | 1:A:21:SER:HG  | 1:A:26:CYS:H    | 10       | 1.16          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 2        | 1.16          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 2        | 1.16          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 13       | 1.16          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 13       | 1.16          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 15       | 1.16          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 15       | 1.16          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 6        | 1.16          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 14       | 1.16          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 14       | 1.16          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2  | 17       | 1.16          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3  | 17       | 1.16          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 14       | 1.16          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 17       | 1.16          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 15       | 1.16          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 20       | 1.16          |
| (1,1179) | 1:A:4:ASN:HB3  | 1:A:5:GLY:HA3   | 5        | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 5        | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 5        | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 6        | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 6        | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 18       | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 18       | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 19       | 1.16          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 19       | 1.16          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 9        | 1.15          |
| (1,951)  | 1:A:3:PRO:HD2  | 1:A:5:GLY:H     | 18       | 1.15          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H    | 2        | 1.15          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H    | 4        | 1.15          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H    | 7        | 1.15          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H    | 13       | 1.15          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG2  | 1        | 1.15          |
| (1,4778) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HG3  | 1        | 1.15          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE2  | 2        | 1.15          |
| (1,4432) | 1:A:23:TYR:HE1 | 1:A:31:LYS:HE3  | 2        | 1.15          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE2  | 2        | 1.15          |
| (1,4432) | 1:A:23:TYR:HE2 | 1:A:31:LYS:HE3  | 2        | 1.15          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 14       | 1.15          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 14       | 1.15          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1  | 9        | 1.15          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD2  | 9        | 1.15          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB2  | 17       | 1.15          |
| (1,3619) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HB3  | 17       | 1.15          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 5        | 1.15          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 5        | 1.15          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA2 | 6        | 1.15          |
| (1,3451) | 1:A:16:GLY:H   | 1:A:17:GLY:HA3 | 6        | 1.15          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 2        | 1.15          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2  | 8        | 1.15          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3  | 8        | 1.15          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2  | 10       | 1.15          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3  | 10       | 1.15          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 2        | 1.15          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 9        | 1.14          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 9        | 1.14          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 9        | 1.14          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 9        | 1.14          |
| (1,4914) | 1:A:31:LYS:HZ1 | 1:A:35:HIS:HE1 | 20       | 1.14          |
| (1,4914) | 1:A:31:LYS:HZ2 | 1:A:35:HIS:HE1 | 20       | 1.14          |
| (1,4914) | 1:A:31:LYS:HZ3 | 1:A:35:HIS:HE1 | 20       | 1.14          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1 | 5        | 1.14          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2 | 5        | 1.14          |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H   | 1        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 1        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 3        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 5        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 6        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 8        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 9        | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 11       | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 12       | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 14       | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 15       | 1.14          |
| (1,4854) | 1:A:31:LYS:HA  | 1:A:33:CYS:H   | 17       | 1.14          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 7        | 1.14          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 7        | 1.14          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 11       | 1.14          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 11       | 1.14          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 8        | 1.14          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 8        | 1.14          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 20       | 1.14          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 20       | 1.14          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 9        | 1.14          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 18       | 1.14          |
| (1,3881) | 1:A:19:CYS:HB2 | 1:A:32:TYR:HD1 | 17       | 1.14          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3881) | 1:A:19:CYS:HB2  | 1:A:32:TYR:HD2  | 17       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB2  | 14       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB2  | 14       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB2  | 14       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD21 | 1:A:32:TYR:HB3  | 14       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD22 | 1:A:32:TYR:HB3  | 14       | 1.14          |
| (1,3813) | 1:A:18:LEU:HD23 | 1:A:32:TYR:HB3  | 14       | 1.14          |
| (1,3670) | 1:A:18:LEU:HA   | 1:A:28:SER:H    | 2        | 1.14          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG   | 6        | 1.14          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG   | 17       | 1.14          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H    | 2        | 1.14          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H    | 2        | 1.14          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA2  | 15       | 1.14          |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA2  | 15       | 1.14          |
| (1,3358) | 1:A:15:ARG:HG2  | 1:A:17:GLY:HA3  | 15       | 1.14          |
| (1,3358) | 1:A:15:ARG:HG3  | 1:A:17:GLY:HA3  | 15       | 1.14          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3   | 6        | 1.14          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 1        | 1.14          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 17       | 1.14          |
| (1,112)  | 1:A:29:GLY:H    | 1:A:33:CYS:HB3  | 10       | 1.14          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB2  | 7        | 1.13          |
| (1,4857) | 1:A:31:LYS:HA   | 1:A:35:HIS:HB3  | 7        | 1.13          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ1  | 3        | 1.13          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ2  | 3        | 1.13          |
| (1,4782) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HZ3  | 3        | 1.13          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2  | 6        | 1.13          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3  | 6        | 1.13          |
| (1,4216) | 1:A:22:GLN:HB3  | 1:A:22:GLN:HE22 | 13       | 1.13          |
| (1,3745) | 1:A:18:LEU:HG   | 1:A:28:SER:HB3  | 14       | 1.13          |
| (1,3670) | 1:A:18:LEU:HA   | 1:A:28:SER:H    | 5        | 1.13          |
| (1,3670) | 1:A:18:LEU:HA   | 1:A:28:SER:H    | 10       | 1.13          |
| (1,3670) | 1:A:18:LEU:HA   | 1:A:28:SER:H    | 14       | 1.13          |
| (1,3589) | 1:A:17:GLY:HA2  | 1:A:18:LEU:HG   | 5        | 1.13          |
| (1,3)    | 1:A:2:GLY:HA3   | 1:A:6:GLN:HB3   | 5        | 1.13          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 7        | 1.13          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 11       | 1.13          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 12       | 1.13          |
| (1,2523) | 1:A:10:GLY:HA3  | 1:A:11:TRP:HE1  | 16       | 1.13          |
| (1,1395) | 1:A:5:GLY:H     | 1:A:6:GLN:HG3   | 12       | 1.13          |
| (1,1121) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HB2   | 2        | 1.13          |
| (1,1121) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HB3   | 2        | 1.13          |
| (1,1121) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HB2   | 7        | 1.13          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 7        | 1.13          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 12       | 1.13          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 12       | 1.13          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 20       | 1.12          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 20       | 1.12          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 12       | 1.12          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB1  | 15       | 1.12          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB2  | 15       | 1.12          |
| (1,4919) | 1:A:32:TYR:HA  | 1:A:34:ALA:HB3  | 15       | 1.12          |
| (1,4890) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HA   | 7        | 1.12          |
| (1,4881) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HA   | 16       | 1.12          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 18       | 1.12          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 18       | 1.12          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 16       | 1.12          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 16       | 1.12          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD1  | 20       | 1.12          |
| (1,4264) | 1:A:22:GLN:HG3 | 1:A:32:TYR:HD2  | 20       | 1.12          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 10       | 1.12          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 4        | 1.12          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 17       | 1.12          |
| (1,3690) | 1:A:18:LEU:HB2 | 1:A:26:CYS:HA   | 14       | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 8        | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 9        | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 14       | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 18       | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 19       | 1.12          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 20       | 1.12          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 17       | 1.12          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 16       | 1.12          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 16       | 1.12          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 16       | 1.12          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 14       | 1.12          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 14       | 1.12          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 14       | 1.11          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 14       | 1.11          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 4        | 1.11          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 4        | 1.11          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 4        | 1.11          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 4        | 1.11          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 11       | 1.11          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 11       | 1.11          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 11       | 1.11          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 11       | 1.11          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 10       | 1.11          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 17       | 1.11          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2  | 10       | 1.11          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3  | 10       | 1.11          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2  | 9        | 1.11          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3  | 9        | 1.11          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 4        | 1.11          |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 15       | 1.11          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 5        | 1.11          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 6        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 2        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 3        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 4        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 5        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 6        | 1.11          |
| (1,2523) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HE1  | 10       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 1        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 2        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 3        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 4        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 5        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 6        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 7        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 8        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 9        | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 10       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 11       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 12       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 13       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 14       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 15       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 16       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 18       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 19       | 1.11          |
| (1,2192) | 1:A:9:PRO:HB2  | 1:A:10:GLY:HA3  | 20       | 1.11          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 13       | 1.11          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 13       | 1.11          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 16       | 1.11          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 16       | 1.11          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 3        | 1.11          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 14       | 1.11          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 1        | 1.1           |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 1        | 1.1           |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 15       | 1.1           |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 15       | 1.1           |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 1        | 1.1           |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 9        | 1.1           |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA  | 19       | 1.1           |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H   | 7        | 1.1           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 6        | 1.1           |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 6        | 1.1           |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 12       | 1.1           |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 12       | 1.1           |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 18       | 1.1           |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 18       | 1.1           |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 10       | 1.1           |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 10       | 1.1           |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 8        | 1.1           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2 | 14       | 1.1           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3 | 14       | 1.1           |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2  | 11       | 1.1           |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3  | 11       | 1.1           |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 16       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 18       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 18       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 18       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 19       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 19       | 1.09          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 19       | 1.09          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE1 | 1        | 1.09          |
| (1,4884) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HE2 | 1        | 1.09          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 3        | 1.09          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 3        | 1.09          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 3        | 1.09          |
| (1,4650) | 1:A:26:CYS:HB2 | 1:A:27:GLY:HA2 | 14       | 1.09          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 15       | 1.09          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 15       | 1.09          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 17       | 1.09          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA  | 8        | 1.09          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 19       | 1.09          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 10       | 1.09          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 10       | 1.09          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2  | 17       | 1.09          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3  | 17       | 1.09          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 3        | 1.08          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 3        | 1.08          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 4        | 1.08          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 4        | 1.08          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3 | 4        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 1        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 1        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 1        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 3        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 3        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 3        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 5        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 5        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 5        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 6        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 6        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 6        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 9        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 9        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 9        | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 11       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 11       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 11       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 17       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 17       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 17       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB1 | 20       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB2 | 20       | 1.08          |
| (1,4916) | 1:A:32:TYR:H   | 1:A:34:ALA:HB3 | 20       | 1.08          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 1        | 1.08          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 6        | 1.08          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 11       | 1.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD2 | 15       | 1.08          |
| (1,4774) | 1:A:29:GLY:HA2 | 1:A:31:LYS:HD3 | 15       | 1.08          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 6        | 1.08          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 6        | 1.08          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 2        | 1.08          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 5        | 1.08          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 10       | 1.08          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB2 | 11       | 1.08          |
| (1,4218) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HB3 | 11       | 1.08          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA  | 1        | 1.08          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 11       | 1.08          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2 | 12       | 1.08          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 15       | 1.08          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H   | 1        | 1.08          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3  | 13       | 1.08          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2  | 1        | 1.08          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3  | 1        | 1.08          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3  | 10       | 1.08          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21 | 1        | 1.07          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22 | 1        | 1.07          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 11       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1 | 15       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2 | 15       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3 | 15       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1 | 15       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2 | 15       | 1.07          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3 | 15       | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 1        | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 3        | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 4        | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 6        | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 11       | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 13       | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 14       | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 15       | 1.07          |
| (1,4339) | 1:A:23:TYR:H   | 1:A:24:GLY:HA2 | 16       | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 2        | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 3        | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 4        | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 10       | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 11       | 1.07          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA  | 17       | 1.07          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE  | 7        | 1.07          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 3        | 1.07          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 4        | 1.07          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2 | 17       | 1.07          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3 | 17       | 1.07          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3 | 8        | 1.06          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB2 | 20       | 1.06          |
| (1,4917) | 1:A:32:TYR:H   | 1:A:35:HIS:HB3 | 20       | 1.06          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 13       | 1.06          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4488) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HD1  | 1        | 1.06          |
| (1,4488) | 1:A:24:GLY:HA3  | 1:A:25:TYR:HD2  | 1        | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 7        | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 8        | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 9        | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 18       | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 19       | 1.06          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 20       | 1.06          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB2  | 20       | 1.06          |
| (1,4337) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HB3  | 20       | 1.06          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB2  | 19       | 1.06          |
| (1,4218) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HB3  | 19       | 1.06          |
| (1,4103) | 1:A:22:GLN:H    | 1:A:23:TYR:HB2  | 6        | 1.06          |
| (1,3289) | 1:A:15:ARG:HB2  | 1:A:15:ARG:HE   | 10       | 1.06          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 2        | 1.06          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 5        | 1.06          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 6        | 1.06          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 10       | 1.06          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 17       | 1.06          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 8        | 1.06          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 8        | 1.06          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 8        | 1.06          |
| (1,1395) | 1:A:5:GLY:H     | 1:A:6:GLN:HG3   | 1        | 1.06          |
| (1,1395) | 1:A:5:GLY:H     | 1:A:6:GLN:HG3   | 17       | 1.06          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB2   | 11       | 1.06          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB3   | 11       | 1.06          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB2   | 15       | 1.06          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB3   | 15       | 1.06          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD1  | 16       | 1.05          |
| (1,4883) | 1:A:31:LYS:HG3  | 1:A:32:TYR:HD2  | 16       | 1.05          |
| (1,4814) | 1:A:30:PRO:HB3  | 1:A:34:ALA:H    | 5        | 1.05          |
| (1,4814) | 1:A:30:PRO:HB3  | 1:A:34:ALA:H    | 9        | 1.05          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB2  | 5        | 1.05          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB3  | 5        | 1.05          |
| (1,4339) | 1:A:23:TYR:H    | 1:A:24:GLY:HA2  | 12       | 1.05          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD1  | 16       | 1.05          |
| (1,4196) | 1:A:22:GLN:HG2  | 1:A:32:TYR:HD2  | 16       | 1.05          |
| (1,3674) | 1:A:18:LEU:HB2  | 1:A:19:CYS:HA   | 13       | 1.05          |
| (1,3670) | 1:A:18:LEU:HA   | 1:A:28:SER:H    | 13       | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2  | 1:A:18:LEU:HB2  | 1        | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2  | 1:A:18:LEU:HB2  | 8        | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2  | 1:A:18:LEU:HB2  | 9        | 1.05          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 11       | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 12       | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 15       | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 16       | 1.05          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 20       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 10       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 10       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 10       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 17       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 17       | 1.05          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 17       | 1.05          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 19       | 1.05          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 19       | 1.05          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 19       | 1.05          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 11       | 1.05          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 17       | 1.05          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 6        | 1.05          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 10       | 1.04          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 10       | 1.04          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3  | 20       | 1.04          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 11       | 1.04          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 8        | 1.04          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 8        | 1.04          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 14       | 1.04          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 13       | 1.04          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 17       | 1.04          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 17       | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 3        | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 3        | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 3        | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 4        | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 4        | 1.04          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 4        | 1.04          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 12       | 1.04          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 9        | 1.04          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 9        | 1.04          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 9        | 1.04          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 3        | 1.04          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 3        | 1.04          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 9        | 1.04          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 9        | 1.04          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 13       | 1.04          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 13       | 1.04          |
| (1,1)    | 1:A:2:GLY:HA3  | 1:A:6:GLN:HB3   | 5        | 1.04          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 7        | 1.03          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 12       | 1.03          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 2        | 1.03          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ1  | 14       | 1.03          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ2  | 14       | 1.03          |
| (1,4798) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HZ3  | 14       | 1.03          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 13       | 1.03          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 13       | 1.03          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 1        | 1.03          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 12       | 1.03          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 7        | 1.03          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 7        | 1.03          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 7        | 1.03          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 19       | 1.03          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 19       | 1.03          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 9        | 1.03          |
| (1,1395) | 1:A:5:GLY:H    | 1:A:6:GLN:HG3   | 15       | 1.03          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 3        | 1.03          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 4        | 1.03          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 5        | 1.03          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 6        | 1.03          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 20       | 1.03          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 20       | 1.03          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 2        | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 4        | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 8        | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 10       | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 13       | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 14       | 1.02          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 15       | 1.02          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 16       | 1.02          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 12       | 1.02          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2  | 17       | 1.02          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3  | 17       | 1.02          |
| (1,4154) | 1:A:22:GLN:HA  | 1:A:35:HIS:HB2  | 1        | 1.02          |
| (1,4154) | 1:A:22:GLN:HA  | 1:A:35:HIS:HB3  | 1        | 1.02          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 2        | 1.02          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 2        | 1.02          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 12       | 1.02          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 11       | 1.02          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 15       | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 5        | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 5        | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 5        | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 6        | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 6        | 1.02          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 6        | 1.02          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 9        | 1.02          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 9        | 1.02          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 3        | 1.02          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 4        | 1.02          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 6        | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 1        | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 1        | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 16       | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 16       | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 18       | 1.02          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 18       | 1.02          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 1        | 1.02          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 2        | 1.02          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 10       | 1.02          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 11       | 1.02          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 13       | 1.02          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 4        | 1.02          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 4        | 1.02          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 1        | 1.01          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 5        | 1.01          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 5        | 1.01          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 18       | 1.01          |
| (1,610)  | 1:A:2:GLY:H    | 1:A:11:TRP:HZ3  | 19       | 1.01          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 16       | 1.01          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 16       | 1.01          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 18       | 1.01          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 19       | 1.01          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 20       | 1.01          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 14       | 1.01          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 11       | 1.01          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 9        | 1.01          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 18       | 1.01          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 19       | 1.01          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 13       | 1.01          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 13       | 1.01          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 13       | 1.01          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 13       | 1.01          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 14       | 1.01          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 12       | 1.01          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 12       | 1.01          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 20       | 1.01          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 20       | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 7        | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 7        | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 7        | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD11 | 18       | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD12 | 18       | 1.01          |
| (1,1481) | 1:A:5:GLY:HA3  | 1:A:18:LEU:HD13 | 18       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 7        | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 8        | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 9        | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 12       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 14       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 15       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 16       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 18       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 19       | 1.01          |
| (1,136)  | 1:A:21:SER:HB3 | 1:A:22:GLN:H    | 20       | 1.01          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 12       | 1.01          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 12       | 1.01          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 2        | 1.0           |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 2        | 1.0           |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 16       | 1.0           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1  | 7        | 1.0           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2  | 7        | 1.0           |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3  | 7        | 1.0           |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 4        | 1.0           |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 20       | 1.0           |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 20       | 1.0           |
| (1,4157) | 1:A:22:GLN:HB2 | 1:A:23:TYR:HA   | 17       | 1.0           |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 12       | 1.0           |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 7        | 1.0           |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 8        | 1.0           |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 18       | 1.0           |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 19       | 1.0           |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 20       | 1.0           |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 20       | 1.0           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H   | 14       | 1.0           |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 7        | 1.0           |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 16       | 1.0           |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 18       | 1.0           |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3 | 19       | 1.0           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 16       | 1.0           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 18       | 1.0           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 19       | 1.0           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 20       | 1.0           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2 | 8        | 1.0           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3 | 8        | 1.0           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2 | 15       | 1.0           |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3 | 15       | 1.0           |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2  | 20       | 1.0           |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3  | 20       | 1.0           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2  | 7        | 1.0           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3  | 7        | 1.0           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2  | 8        | 1.0           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3  | 8        | 1.0           |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 2        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 2        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 5        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 5        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 6        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 6        | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 10       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 10       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 16       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 16       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 18       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 18       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2  | 19       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3  | 19       | 0.99          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21 | 6        | 0.99          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22 | 6        | 0.99          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 10       | 0.99          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 19       | 0.99          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H   | 20       | 0.99          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H   | 8        | 0.99          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H   | 13       | 0.99          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H   | 15       | 0.99          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 8        | 0.99          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 10       | 0.99          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 12       | 0.99          |
| (1,3674) | 1:A:18:LEU:HB2 | 1:A:19:CYS:HA   | 14       | 0.99          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 17       | 0.99          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 7        | 0.99          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 18       | 0.99          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 19       | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 2        | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 2        | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 2        | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 12       | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 12       | 0.99          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 12       | 0.99          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 8        | 0.99          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 12       | 0.99          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 20       | 0.99          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 11       | 0.99          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 11       | 0.99          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 1        | 0.99          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 1        | 0.99          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 16       | 0.99          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 16       | 0.99          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 18       | 0.99          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 18       | 0.99          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 7        | 0.98          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 7        | 0.98          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 8        | 0.98          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 8        | 0.98          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 3        | 0.98          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 20       | 0.98          |
| (1,4814) | 1:A:30:PRO:HB3 | 1:A:34:ALA:H    | 18       | 0.98          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 12       | 0.98          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2  | 11       | 0.98          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3  | 11       | 0.98          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 18       | 0.98          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 18       | 0.98          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 12       | 0.98          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 16       | 0.98          |
| (1,4103) | 1:A:22:GLN:H   | 1:A:23:TYR:HB2  | 15       | 0.98          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 3        | 0.98          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 4        | 0.98          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 6        | 0.98          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3674) | 1:A:18:LEU:HB2  | 1:A:19:CYS:HA   | 16       | 0.98          |
| (1,3620) | 1:A:17:GLY:HA3  | 1:A:18:LEU:HG   | 9        | 0.98          |
| (1,3393) | 1:A:15:ARG:HD2  | 1:A:17:GLY:H    | 6        | 0.98          |
| (1,3393) | 1:A:15:ARG:HD3  | 1:A:17:GLY:H    | 6        | 0.98          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 7        | 0.98          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 8        | 0.98          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 9        | 0.98          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 15       | 0.98          |
| (1,196)  | 1:A:6:GLN:HB2   | 1:A:7:CYS:H     | 6        | 0.98          |
| (1,194)  | 1:A:14:CYS:H    | 1:A:14:CYS:HB3  | 9        | 0.98          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 14       | 0.98          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD11 | 20       | 0.98          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD12 | 20       | 0.98          |
| (1,1481) | 1:A:5:GLY:HA3   | 1:A:18:LEU:HD13 | 20       | 0.98          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB2   | 19       | 0.98          |
| (1,1052) | 1:A:4:ASN:H     | 1:A:6:GLN:HB3   | 19       | 0.98          |
| (1,710)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HB2   | 12       | 0.97          |
| (1,710)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HB3   | 12       | 0.97          |
| (1,710)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HB2   | 17       | 0.97          |
| (1,710)  | 1:A:2:GLY:HA3   | 1:A:4:ASN:HB3   | 17       | 0.97          |
| (1,684)  | 1:A:2:GLY:HA2   | 1:A:11:TRP:HB3  | 17       | 0.97          |
| (1,610)  | 1:A:2:GLY:H     | 1:A:11:TRP:HZ3  | 20       | 0.97          |
| (1,507)  | 1:A:1:SER:HA    | 1:A:6:GLN:HB2   | 16       | 0.97          |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H    | 13       | 0.97          |
| (1,4805) | 1:A:30:PRO:HB2  | 1:A:34:ALA:H    | 2        | 0.97          |
| (1,4805) | 1:A:30:PRO:HB2  | 1:A:34:ALA:H    | 4        | 0.97          |
| (1,4805) | 1:A:30:PRO:HB2  | 1:A:34:ALA:H    | 14       | 0.97          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3  | 2        | 0.97          |
| (1,4779) | 1:A:29:GLY:HA3  | 1:A:31:LYS:HB3  | 5        | 0.97          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB2  | 1        | 0.97          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB3  | 1        | 0.97          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB2  | 16       | 0.97          |
| (1,4702) | 1:A:27:GLY:HA2  | 1:A:32:TYR:HB3  | 16       | 0.97          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 11       | 0.97          |
| (1,4156) | 1:A:22:GLN:HG2  | 1:A:23:TYR:HA   | 4        | 0.97          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 3        | 0.97          |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 3        | 0.97          |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA2  | 1        | 0.97          |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA3  | 1        | 0.97          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 1        | 0.97          |
| (1,210)  | 1:A:25:TYR:HB2  | 1:A:26:CYS:H    | 11       | 0.97          |
| (1,196)  | 1:A:6:GLN:HB2   | 1:A:7:CYS:H     | 3        | 0.97          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 5        | 0.97          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 10       | 0.97          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 11       | 0.97          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 11       | 0.97          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB2   | 9        | 0.97          |
| (1,1121) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HB3   | 9        | 0.97          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 11       | 0.96          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 11       | 0.96          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB2   | 13       | 0.96          |
| (1,710)  | 1:A:2:GLY:HA3  | 1:A:4:ASN:HB3   | 13       | 0.96          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 8        | 0.96          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H    | 7        | 0.96          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 19       | 0.96          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 19       | 0.96          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 13       | 0.96          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 7        | 0.96          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 9        | 0.96          |
| (1,340)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 14       | 0.96          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 17       | 0.96          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 17       | 0.96          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 6        | 0.96          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 16       | 0.96          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 16       | 0.96          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 16       | 0.96          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 2        | 0.96          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 14       | 0.96          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 11       | 0.96          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 13       | 0.96          |
| (1,194)  | 1:A:14:CYS:H   | 1:A:14:CYS:HB3  | 15       | 0.96          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 11       | 0.96          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 12       | 0.96          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 13       | 0.96          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 15       | 0.96          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 17       | 0.96          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB2  | 13       | 0.96          |
| (1,1506) | 1:A:6:GLN:H    | 1:A:11:TRP:HB3  | 13       | 0.96          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 9        | 0.96          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 9        | 0.96          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 15       | 0.96          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 15       | 0.96          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 12       | 0.95          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 15       | 0.95          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 2        | 0.95          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 3        | 0.95          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 4        | 0.95          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 5        | 0.95          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 6        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 2        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 2        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 4        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 4        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 7        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 7        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 9        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 9        | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 13       | 0.95          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 13       | 0.95          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 17       | 0.95          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 17       | 0.95          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 19       | 0.95          |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2 | 19       | 0.95          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 8        | 0.95          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 17       | 0.95          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H   | 8        | 0.95          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 9        | 0.95          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 9        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 1        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 1        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 2        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 2        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 3        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 3        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 4        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 4        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 5        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 5        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 6        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 6        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 7        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 7        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 8        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 8        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 9        | 0.95          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 9        | 0.95          |

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| Key      | Atom-1        | Atom-2         | Model ID | Violation (Å) |
|----------|---------------|----------------|----------|---------------|
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 10       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 10       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 11       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 11       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 12       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 12       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 13       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 13       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 15       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 15       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 16       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 16       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 18       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 18       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 19       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 19       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB2 | 20       | 0.95          |
| (1,2458) | 1:A:10:GLY:H  | 1:A:11:TRP:HB3 | 20       | 0.95          |
| (1,196)  | 1:A:6:GLN:HB2 | 1:A:7:CYS:H    | 4        | 0.95          |
| (1,196)  | 1:A:6:GLN:HB2 | 1:A:7:CYS:H    | 18       | 0.95          |
| (1,196)  | 1:A:6:GLN:HB2 | 1:A:7:CYS:H    | 19       | 0.95          |
| (1,194)  | 1:A:14:CYS:H  | 1:A:14:CYS:HB3 | 1        | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 1        | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 7        | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 8        | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 16       | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 18       | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 19       | 0.95          |
| (1,158)  | 1:A:19:CYS:H  | 1:A:19:CYS:HB3 | 20       | 0.95          |
| (1,1506) | 1:A:6:GLN:H   | 1:A:11:TRP:HB2 | 9        | 0.95          |
| (1,1506) | 1:A:6:GLN:H   | 1:A:11:TRP:HB3 | 9        | 0.95          |
| (1,1394) | 1:A:5:GLY:H   | 1:A:6:GLN:HB2  | 1        | 0.95          |
| (1,1394) | 1:A:5:GLY:H   | 1:A:6:GLN:HB3  | 1        | 0.95          |
| (1,1394) | 1:A:5:GLY:H   | 1:A:6:GLN:HB2  | 17       | 0.95          |
| (1,1394) | 1:A:5:GLY:H   | 1:A:6:GLN:HB3  | 17       | 0.95          |
| (1,110)  | 1:A:33:CYS:H  | 1:A:33:CYS:HB3 | 10       | 0.95          |
| (1,1052) | 1:A:4:ASN:H   | 1:A:6:GLN:HB2  | 4        | 0.95          |
| (1,1052) | 1:A:4:ASN:H   | 1:A:6:GLN:HB3  | 4        | 0.95          |
| (1,1052) | 1:A:4:ASN:H   | 1:A:6:GLN:HB2  | 14       | 0.95          |
| (1,1052) | 1:A:4:ASN:H   | 1:A:6:GLN:HB3  | 14       | 0.95          |
| (1,684)  | 1:A:2:GLY:HA2 | 1:A:11:TRP:HB3 | 2        | 0.94          |
| (1,684)  | 1:A:2:GLY:HA2 | 1:A:11:TRP:HB3 | 15       | 0.94          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3 | 19       | 0.94          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 13       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 1        | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 8        | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 9        | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 11       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 12       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 13       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 14       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 15       | 0.94          |
| (1,4833) | 1:A:30:PRO:HD2 | 1:A:32:TYR:H   | 17       | 0.94          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H   | 15       | 0.94          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 18       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 8        | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 8        | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 12       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 12       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 14       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 14       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 15       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 15       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 18       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 18       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 19       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 19       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB2 | 20       | 0.94          |
| (1,4702) | 1:A:27:GLY:HA2 | 1:A:32:TYR:HB3 | 20       | 0.94          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 5        | 0.94          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 5        | 0.94          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 14       | 0.94          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 16       | 0.94          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 19       | 0.94          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 9        | 0.94          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 12       | 0.94          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 18       | 0.94          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 14       | 0.94          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 14       | 0.94          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB2 | 17       | 0.94          |
| (1,2458) | 1:A:10:GLY:H   | 1:A:11:TRP:HB3 | 17       | 0.94          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H   | 13       | 0.94          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H    | 7        | 0.94          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H    | 8        | 0.94          |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,196)  | 1:A:6:GLN:HB2   | 1:A:7:CYS:H     | 16       | 0.94          |
| (1,196)  | 1:A:6:GLN:HB2   | 1:A:7:CYS:H     | 20       | 0.94          |
| (1,172)  | 1:A:28:SER:HA   | 1:A:32:TYR:HB3  | 10       | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 2        | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 3        | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 4        | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 5        | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 6        | 0.94          |
| (1,158)  | 1:A:19:CYS:H    | 1:A:19:CYS:HB3  | 9        | 0.94          |
| (1,1394) | 1:A:5:GLY:H     | 1:A:6:GLN:HB2   | 13       | 0.94          |
| (1,1394) | 1:A:5:GLY:H     | 1:A:6:GLN:HB3   | 13       | 0.94          |
| (1,1394) | 1:A:5:GLY:H     | 1:A:6:GLN:HB2   | 20       | 0.94          |
| (1,1394) | 1:A:5:GLY:H     | 1:A:6:GLN:HB3   | 20       | 0.94          |
| (1,1121) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HB2   | 15       | 0.94          |
| (1,1121) | 1:A:4:ASN:HB2   | 1:A:6:GLN:HB3   | 15       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 1        | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 2        | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 4        | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 8        | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 9        | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 11       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 12       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 13       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 14       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 15       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 17       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 18       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 19       | 0.94          |
| (1,110)  | 1:A:33:CYS:H    | 1:A:33:CYS:HB3  | 20       | 0.94          |
| (1,4921) | 1:A:32:TYR:HA   | 1:A:35:HIS:HB3  | 1        | 0.93          |
| (1,4815) | 1:A:30:PRO:HB3  | 1:A:35:HIS:H    | 4        | 0.93          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ1  | 16       | 0.93          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ2  | 16       | 0.93          |
| (1,4798) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HZ3  | 16       | 0.93          |
| (1,4338) | 1:A:22:GLN:HE22 | 1:A:35:HIS:HE1  | 19       | 0.93          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1  | 9        | 0.93          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2  | 9        | 0.93          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE21 | 20       | 0.93          |
| (1,4133) | 1:A:22:GLN:HA   | 1:A:22:GLN:HE22 | 20       | 0.93          |
| (1,4020) | 1:A:21:SER:H    | 1:A:25:TYR:HB2  | 15       | 0.93          |
| (1,4020) | 1:A:21:SER:H    | 1:A:25:TYR:HB2  | 18       | 0.93          |
| (1,4020) | 1:A:21:SER:H    | 1:A:25:TYR:HB2  | 20       | 0.93          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 15       | 0.93          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 8        | 0.93          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 8        | 0.93          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 8        | 0.93          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 17       | 0.93          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 18       | 0.93          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 19       | 0.93          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 20       | 0.93          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 1        | 0.93          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 11       | 0.93          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 13       | 0.93          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 15       | 0.93          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 12       | 0.93          |
| (1,158)  | 1:A:19:CYS:H   | 1:A:19:CYS:HB3  | 10       | 0.93          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 12       | 0.93          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 12       | 0.93          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 16       | 0.93          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 16       | 0.93          |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3  | 3        | 0.93          |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3  | 5        | 0.93          |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3  | 6        | 0.93          |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3  | 16       | 0.93          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 7        | 0.92          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 13       | 0.92          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 7        | 0.92          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 15       | 0.92          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 17       | 0.92          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 9        | 0.92          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 8        | 0.92          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 1        | 0.92          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 11       | 0.92          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 16       | 0.92          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 12       | 0.92          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 20       | 0.92          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 20       | 0.92          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 20       | 0.92          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 16       | 0.92          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 7        | 0.92          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 8        | 0.92          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 12       | 0.92          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 14       | 0.92          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 16       | 0.92          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H    | 13       | 0.92          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 1        | 0.92          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 11       | 0.92          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 7        | 0.92          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 7        | 0.92          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 8        | 0.92          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 8        | 0.92          |
| (1,110)  | 1:A:33:CYS:H   | 1:A:33:CYS:HB3 | 7        | 0.92          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 2        | 0.92          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 4        | 0.92          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 5        | 0.92          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 6        | 0.92          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 10       | 0.92          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 9        | 0.91          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 7        | 0.91          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 9        | 0.91          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA  | 18       | 0.91          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2 | 13       | 0.91          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H   | 9        | 0.91          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H   | 20       | 0.91          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2 | 4        | 0.91          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2 | 4        | 0.91          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 20       | 0.91          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE  | 15       | 0.91          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1 | 13       | 0.91          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H   | 18       | 0.91          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H   | 19       | 0.91          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H   | 20       | 0.91          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H    | 1        | 0.91          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 13       | 0.91          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 18       | 0.91          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 18       | 0.91          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 19       | 0.91          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 19       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 1        | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 3        | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 7        | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 8        | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 9        | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 11       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 12       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3 | 13       | 0.91          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 14       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 15       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 16       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 17       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 18       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 19       | 0.91          |
| (1,100)  | 1:A:11:TRP:H   | 1:A:11:TRP:HB3  | 20       | 0.91          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 18       | 0.9           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 15       | 0.9           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 15       | 0.9           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 15       | 0.9           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 15       | 0.9           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 19       | 0.9           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 19       | 0.9           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 19       | 0.9           |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 19       | 0.9           |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 2        | 0.9           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 1        | 0.9           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 1        | 0.9           |
| (1,4866) | 1:A:31:LYS:HG2 | 1:A:32:TYR:H    | 20       | 0.9           |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 1        | 0.9           |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 3        | 0.9           |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 16       | 0.9           |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 8        | 0.9           |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 2        | 0.9           |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 2        | 0.9           |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 9        | 0.9           |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 9        | 0.9           |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 9        | 0.9           |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 5        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 2        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 3        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 4        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 5        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 6        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 9        | 0.9           |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 10       | 0.9           |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 9        | 0.9           |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 15       | 0.9           |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 15       | 0.9           |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 6        | 0.89          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 8        | 0.89          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 11       | 0.89          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 16       | 0.89          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 18       | 0.89          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 19       | 0.89          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 13       | 0.89          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 6        | 0.89          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 10       | 0.89          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 11       | 0.89          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 3        | 0.89          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 16       | 0.89          |
| (1,3395) | 1:A:15:ARG:HD2 | 1:A:18:LEU:HB3  | 1        | 0.89          |
| (1,3395) | 1:A:15:ARG:HD3 | 1:A:18:LEU:HB3  | 1        | 0.89          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 13       | 0.89          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 13       | 0.89          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 16       | 0.89          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 19       | 0.89          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 19       | 0.89          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 19       | 0.89          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H     | 11       | 0.89          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 2        | 0.89          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 3        | 0.89          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 4        | 0.89          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 10       | 0.89          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 3        | 0.89          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 3        | 0.89          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 9        | 0.88          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 6        | 0.88          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 4        | 0.88          |
| (1,4215) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HE1  | 19       | 0.88          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 5        | 0.88          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 12       | 0.88          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 3        | 0.88          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 3        | 0.88          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 18       | 0.88          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 18       | 0.88          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 18       | 0.88          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 10       | 0.88          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 16       | 0.88          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 18       | 0.88          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 19       | 0.88          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 20       | 0.88          |
| (1,2080) | 1:A:8:GLY:HA2  | 1:A:12:GLY:H    | 17       | 0.88          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 14       | 0.87          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 16       | 0.87          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 5        | 0.87          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 1        | 0.87          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 1        | 0.87          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 18       | 0.87          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 18       | 0.87          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 7        | 0.87          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 3        | 0.87          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 10       | 0.87          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 18       | 0.87          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 3        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 3        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 3        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 3        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 4        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 4        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 4        | 0.87          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 4        | 0.87          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 15       | 0.87          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 15       | 0.87          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 6        | 0.87          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 6        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 1        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 2        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 3        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 4        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 5        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 6        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 8        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 9        | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 11       | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 12       | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 13       | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 14       | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 15       | 0.87          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 17       | 0.87          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 16       | 0.87          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 18       | 0.87          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 19       | 0.87          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 20       | 0.87          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 5        | 0.87          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 6        | 0.87          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 17       | 0.87          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 4        | 0.86          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 4        | 0.86          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 20       | 0.86          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 18       | 0.86          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 19       | 0.86          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 20       | 0.86          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 5        | 0.86          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 2        | 0.86          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 5        | 0.86          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 11       | 0.86          |
| (1,4020) | 1:A:21:SER:H   | 1:A:25:TYR:HB2  | 2        | 0.86          |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 19       | 0.86          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 7        | 0.86          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 7        | 0.86          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 7        | 0.86          |
| (1,225)  | 1:A:32:TYR:H   | 1:A:32:TYR:HB3  | 7        | 0.86          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 2        | 0.86          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 4        | 0.86          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 13       | 0.86          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 15       | 0.86          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 2        | 0.86          |
| (1,210)  | 1:A:25:TYR:HB2 | 1:A:26:CYS:H    | 10       | 0.86          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 3        | 0.85          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 3        | 0.85          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 3        | 0.85          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 11       | 0.85          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 11       | 0.85          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 11       | 0.85          |
| (1,4918) | 1:A:32:TYR:HA  | 1:A:34:ALA:H    | 7        | 0.85          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1  | 4        | 0.85          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2  | 4        | 0.85          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3  | 4        | 0.85          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2  | 17       | 0.85          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3  | 17       | 0.85          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 18       | 0.85          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 19       | 0.85          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 20       | 0.85          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB2  | 19       | 0.85          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB3  | 19       | 0.85          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 1        | 0.85          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 7        | 0.85          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA2  | 2        | 0.85          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA2  | 2        | 0.85          |
| (1,3358) | 1:A:15:ARG:HG2 | 1:A:17:GLY:HA3  | 2        | 0.85          |
| (1,3358) | 1:A:15:ARG:HG3 | 1:A:17:GLY:HA3  | 2        | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 1        | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 8        | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 10       | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 11       | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 12       | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 14       | 0.85          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 17       | 0.85          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 12       | 0.84          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 1        | 0.84          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 1        | 0.84          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 1        | 0.84          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 1        | 0.84          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 20       | 0.84          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 20       | 0.84          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 20       | 0.84          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 20       | 0.84          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 1        | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 8        | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 14       | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 16       | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 18       | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 19       | 0.84          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 20       | 0.84          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD1  | 15       | 0.84          |
| (1,4135) | 1:A:22:GLN:HA  | 1:A:23:TYR:HD2  | 15       | 0.84          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 1        | 0.84          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 1        | 0.84          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 1        | 0.84          |
| (1,3147) | 1:A:13:GLY:HA3 | 1:A:15:ARG:HE   | 7        | 0.84          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 3        | 0.84          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 5        | 0.84          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 6        | 0.84          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 9        | 0.84          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 14       | 0.84          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 5        | 0.84          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 5        | 0.84          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 2        | 0.84          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 2        | 0.84          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 5        | 0.83          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 16       | 0.83          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 16       | 0.83          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE21  | 17       | 0.83          |
| (1,601)  | 1:A:2:GLY:H    | 1:A:6:GLN:HE22  | 17       | 0.83          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 1        | 0.83          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 15       | 0.83          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 15       | 0.83          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 15       | 0.83          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 8        | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 2        | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 5        | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 7        | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 9        | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 10       | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 12       | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 13       | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 15       | 0.83          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 17       | 0.83          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 13       | 0.83          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 13       | 0.83          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 7        | 0.83          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 13       | 0.83          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 13       | 0.83          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 13       | 0.83          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 4        | 0.83          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 4        | 0.83          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 14       | 0.83          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 14       | 0.83          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 6        | 0.83          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 6        | 0.83          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 10       | 0.83          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 10       | 0.83          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 10       | 0.82          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 1        | 0.82          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 5        | 0.82          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 9        | 0.82          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 17       | 0.82          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 1        | 0.82          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 3        | 0.82          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 4        | 0.82          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 6        | 0.82          |
| (1,4632) | 1:A:26:CYS:HA  | 1:A:27:GLY:HA3  | 11       | 0.82          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 17       | 0.82          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 10       | 0.82          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 15       | 0.82          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 15       | 0.82          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 11       | 0.82          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 5        | 0.82          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 10       | 0.82          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 17       | 0.82          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 7        | 0.82          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 7        | 0.82          |
| (1,223)  | 1:A:32:TYR:HB3 | 1:A:33:CYS:H    | 7        | 0.82          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 2        | 0.82          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 2        | 0.82          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 16       | 0.81          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 9        | 0.81          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 9        | 0.81          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 3        | 0.81          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 6        | 0.81          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 11       | 0.81          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 18       | 0.81          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 19       | 0.81          |
| (1,4805) | 1:A:30:PRO:HB2 | 1:A:34:ALA:H    | 20       | 0.81          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3  | 14       | 0.81          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 1        | 0.81          |
| (1,4156) | 1:A:22:GLN:HG2 | 1:A:23:TYR:HA   | 15       | 0.81          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H    | 3        | 0.81          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H    | 3        | 0.81          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3   | 8        | 0.81          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3   | 8        | 0.81          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 17       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 1        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 2        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 3        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 4        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 5        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 6        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 7        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 8        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 9        | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 10       | 0.81          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 11       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 12       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 13       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 14       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 15       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 16       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 17       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 18       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 19       | 0.81          |
| (1,135)  | 1:A:21:SER:HB3 | 1:A:23:TYR:H    | 20       | 0.81          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 6        | 0.81          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 6        | 0.81          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 10       | 0.81          |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 10       | 0.81          |
| (1,4940) | 1:A:34:ALA:HA  | 1:A:35:HIS:HD2  | 5        | 0.8           |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 12       | 0.8           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 7        | 0.8           |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 7        | 0.8           |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 17       | 0.8           |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 3        | 0.8           |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 5        | 0.8           |
| (1,3670) | 1:A:18:LEU:HA  | 1:A:28:SER:H    | 16       | 0.8           |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 3        | 0.8           |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 3        | 0.8           |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 2        | 0.8           |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 1        | 0.8           |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 7        | 0.8           |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 9        | 0.8           |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 10       | 0.8           |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 11       | 0.8           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 3        | 0.8           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB2   | 5        | 0.8           |
| (1,1052) | 1:A:4:ASN:H    | 1:A:6:GLN:HB3   | 5        | 0.8           |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 13       | 0.79          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 13       | 0.79          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 13       | 0.79          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 13       | 0.79          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 20       | 0.79          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 11       | 0.79          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 11       | 0.79          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD1  | 14       | 0.79          |
| (1,4883) | 1:A:31:LYS:HG3 | 1:A:32:TYR:HD2  | 14       | 0.79          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 7        | 0.79          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 7        | 0.79          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 7        | 0.79          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 7        | 0.79          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 7        | 0.79          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 7        | 0.79          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 15       | 0.79          |
| (1,4217) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HA   | 6        | 0.79          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 14       | 0.79          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 3        | 0.79          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 2        | 0.79          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 2        | 0.79          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 13       | 0.79          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 13       | 0.79          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 20       | 0.79          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 20       | 0.79          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 4        | 0.79          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 18       | 0.79          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 13       | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 3        | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 5        | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 13       | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 15       | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 18       | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 19       | 0.79          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 20       | 0.79          |
| (1,2004) | 1:A:7:CYS:HB2  | 1:A:25:TYR:H    | 17       | 0.79          |
| (1,2004) | 1:A:7:CYS:HB3  | 1:A:25:TYR:H    | 17       | 0.79          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H    | 10       | 0.79          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H    | 16       | 0.79          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H    | 18       | 0.79          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H    | 19       | 0.79          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H    | 20       | 0.79          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 2        | 0.79          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 2        | 0.79          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 3        | 0.79          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 3        | 0.79          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 3        | 0.79          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 3        | 0.79          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 12       | 0.78          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 12       | 0.78          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 7        | 0.78          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 16       | 0.78          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 16       | 0.78          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 16       | 0.78          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2 | 11       | 0.78          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 4        | 0.78          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 17       | 0.78          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 1        | 0.78          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 4        | 0.78          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 5        | 0.78          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 5        | 0.78          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2 | 4        | 0.78          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3 | 4        | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 8        | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 8        | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 18       | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 18       | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 19       | 0.78          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 19       | 0.78          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 12       | 0.78          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2 | 12       | 0.78          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1 | 17       | 0.78          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H   | 2        | 0.78          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H   | 6        | 0.78          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H   | 16       | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 2        | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 4        | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 8        | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 12       | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 13       | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 14       | 0.78          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 15       | 0.78          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 6        | 0.78          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 3        | 0.78          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 3        | 0.78          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2  | 14       | 0.78          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3  | 14       | 0.78          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 6        | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 2        | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 4        | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 8        | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 10       | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 12       | 0.77          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 13       | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 14       | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 15       | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 16       | 0.77          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 18       | 0.77          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 19       | 0.77          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 6        | 0.77          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 8        | 0.77          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2 | 8        | 0.77          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H   | 4        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 1        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 3        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 5        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 6        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 7        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 9        | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 11       | 0.77          |
| (1,183)  | 1:A:30:PRO:HB3 | 1:A:31:LYS:H   | 17       | 0.77          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3 | 9        | 0.77          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 6        | 0.77          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 6        | 0.77          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2  | 10       | 0.77          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3  | 10       | 0.77          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 14       | 0.77          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 14       | 0.77          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21 | 7        | 0.76          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22 | 7        | 0.76          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 14       | 0.76          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 14       | 0.76          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 14       | 0.76          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 14       | 0.76          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2  | 14       | 0.76          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3  | 19       | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 1        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 3        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 5        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 6        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 7        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 9        | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 11       | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 17       | 0.76          |
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA  | 19       | 0.76          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4796) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HA   | 20       | 0.76          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 1        | 0.76          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 2        | 0.76          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 4        | 0.76          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 9        | 0.76          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 8        | 0.76          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 2        | 0.76          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 15       | 0.76          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2  | 13       | 0.76          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3  | 13       | 0.76          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 1        | 0.76          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 1        | 0.76          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 15       | 0.76          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 4        | 0.76          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 4        | 0.76          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 19       | 0.76          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 19       | 0.76          |
| (1,684)  | 1:A:2:GLY:HA2  | 1:A:11:TRP:HB3  | 9        | 0.75          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 9        | 0.75          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 9        | 0.75          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 18       | 0.75          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 18       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 1        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 2        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 3        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 4        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 5        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 6        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 7        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 8        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 9        | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 10       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 11       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 12       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 13       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 14       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 15       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 16       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 17       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 18       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 19       | 0.75          |
| (1,54)   | 1:A:21:SER:H   | 1:A:21:SER:HB2  | 20       | 0.75          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 3        | 0.75          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 3        | 0.75          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 3        | 0.75          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 3        | 0.75          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 16       | 0.75          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 16       | 0.75          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 16       | 0.75          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 16       | 0.75          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 10       | 0.75          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H    | 12       | 0.75          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 7        | 0.75          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 8        | 0.75          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 12       | 0.75          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 14       | 0.75          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 5        | 0.75          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 10       | 0.75          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 10       | 0.75          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB2  | 20       | 0.75          |
| (1,4131) | 1:A:22:GLN:H   | 1:A:35:HIS:HB3  | 20       | 0.75          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 17       | 0.75          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 15       | 0.75          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 15       | 0.75          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 15       | 0.75          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 9        | 0.75          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 9        | 0.75          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 16       | 0.75          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 16       | 0.75          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 5        | 0.75          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB2   | 5        | 0.75          |
| (1,1394) | 1:A:5:GLY:H    | 1:A:6:GLN:HB3   | 5        | 0.75          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 18       | 0.75          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 18       | 0.75          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 8        | 0.74          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 8        | 0.74          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 19       | 0.74          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 19       | 0.74          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 14       | 0.74          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 14       | 0.74          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 14       | 0.74          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 9        | 0.74          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 13       | 0.74          |
| (1,4733) | 1:A:28:SER:H   | 1:A:32:TYR:HB2  | 15       | 0.74          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 2        | 0.74          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 2        | 0.74          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 5        | 0.74          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD21 | 11       | 0.74          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD22 | 11       | 0.74          |
| (1,3229) | 1:A:14:CYS:HB3 | 1:A:18:LEU:HD23 | 11       | 0.74          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 13       | 0.74          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 13       | 0.74          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 20       | 0.74          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 20       | 0.74          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 1        | 0.74          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 8        | 0.74          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 7        | 0.74          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 7        | 0.74          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 8        | 0.74          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 8        | 0.74          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 9        | 0.73          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 9        | 0.73          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 9        | 0.73          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 17       | 0.73          |
| (1,4213) | 1:A:22:GLN:HB2 | 1:A:35:HIS:HD2  | 11       | 0.73          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 13       | 0.73          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 3        | 0.73          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 6        | 0.73          |
| (1,3357) | 1:A:15:ARG:HG2 | 1:A:16:GLY:HA2  | 16       | 0.73          |
| (1,3357) | 1:A:15:ARG:HG3 | 1:A:16:GLY:HA2  | 16       | 0.73          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 15       | 0.73          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 15       | 0.73          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 12       | 0.73          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 12       | 0.73          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 14       | 0.73          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 14       | 0.73          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 15       | 0.73          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 15       | 0.73          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 16       | 0.73          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 16       | 0.73          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 3        | 0.72          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 3        | 0.72          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 13       | 0.72          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 13       | 0.72          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 10       | 0.72          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 6        | 0.72          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1  | 10       | 0.72          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2  | 10       | 0.72          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 10       | 0.72          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 10       | 0.72          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 4        | 0.72          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2  | 9        | 0.72          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3  | 9        | 0.72          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 7        | 0.72          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 7        | 0.72          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 11       | 0.72          |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 11       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 1        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 2        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 3        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 4        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 5        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 6        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 7        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 8        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 9        | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 10       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 11       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 12       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 13       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 14       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 15       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 16       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 17       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 18       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 19       | 0.72          |
| (1,270)  | 1:A:3:PRO:HB3  | 1:A:4:ASN:H     | 20       | 0.72          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 11       | 0.72          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2   | 4        | 0.72          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3   | 4        | 0.72          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 12       | 0.72          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 12       | 0.72          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 20       | 0.72          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 20       | 0.72          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 4        | 0.71          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 17       | 0.71          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 17       | 0.71          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 17       | 0.71          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 5        | 0.71          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 7        | 0.71          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 8        | 0.71          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 12       | 0.71          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 16       | 0.71          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 18       | 0.71          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 9        | 0.7           |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 20       | 0.7           |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 20       | 0.7           |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 9        | 0.7           |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 9        | 0.7           |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 17       | 0.7           |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 18       | 0.7           |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 18       | 0.7           |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 19       | 0.7           |
| (1,284)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB2  | 19       | 0.7           |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 9        | 0.7           |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 14       | 0.7           |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 19       | 0.7           |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 20       | 0.7           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 17       | 0.7           |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 20       | 0.7           |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 11       | 0.69          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 11       | 0.69          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 9        | 0.69          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 9        | 0.69          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 12       | 0.69          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 12       | 0.69          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 12       | 0.69          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 12       | 0.69          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 3        | 0.69          |
| (1,4892) | 1:A:31:LYS:HG3 | 1:A:35:HIS:HD2  | 19       | 0.69          |
| (1,4867) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HA   | 20       | 0.69          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 16       | 0.69          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 15       | 0.69          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 20       | 0.69          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 1        | 0.69          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 15       | 0.69          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 2        | 0.69          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 10       | 0.69          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 3        | 0.69          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 4        | 0.69          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 12       | 0.69          |
| (1,242)  | 1:A:19:CYS:HB2 | 1:A:20:CYS:H    | 14       | 0.69          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 7        | 0.69          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 12       | 0.69          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 13       | 0.69          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 13       | 0.69          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 7        | 0.68          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 7        | 0.68          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 7        | 0.68          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 7        | 0.68          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 17       | 0.68          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 18       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 14       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 14       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 14       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 14       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 14       | 0.68          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 14       | 0.68          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE2  | 15       | 0.68          |
| (1,4781) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HE3  | 15       | 0.68          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 1        | 0.68          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 6        | 0.68          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 17       | 0.68          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 6        | 0.68          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 6        | 0.68          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 2        | 0.68          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 5        | 0.68          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 6        | 0.68          |
| (1,2522) | 1:A:10:GLY:HA3 | 1:A:11:TRP:HD1  | 10       | 0.68          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 17       | 0.68          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 11       | 0.68          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 8        | 0.68          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 11       | 0.68          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 16       | 0.68          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 17       | 0.67          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 17       | 0.67          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 14       | 0.67          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 11       | 0.67          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 13       | 0.67          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 12       | 0.67          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 12       | 0.67          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 9        | 0.67          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 9        | 0.67          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 15       | 0.67          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 1        | 0.67          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 7        | 0.67          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 18       | 0.67          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 1        | 0.67          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 1        | 0.67          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 11       | 0.67          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 11       | 0.67          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 15       | 0.66          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 15       | 0.66          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 16       | 0.66          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 16       | 0.66          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 18       | 0.66          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 18       | 0.66          |
| (1,507)  | 1:A:1:SER:HA   | 1:A:6:GLN:HB2   | 5        | 0.66          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 2        | 0.66          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 4        | 0.66          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 13       | 0.66          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 4        | 0.66          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 7        | 0.66          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 20       | 0.66          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 16       | 0.66          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 16       | 0.66          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 10       | 0.66          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 11       | 0.66          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 20       | 0.66          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 5        | 0.66          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 13       | 0.66          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 19       | 0.66          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2   | 15       | 0.66          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3   | 15       | 0.66          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 4        | 0.65          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 4        | 0.65          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 20       | 0.65          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 20       | 0.65          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 7        | 0.65          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 7        | 0.65          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 12       | 0.65          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 12       | 0.65          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 1        | 0.65          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 9        | 0.65          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 14       | 0.65          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 15       | 0.65          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 20       | 0.65          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 19       | 0.65          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 19       | 0.65          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H   | 15       | 0.65          |
| (1,4779) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB3 | 20       | 0.65          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 16       | 0.65          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 7        | 0.65          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 1        | 0.65          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 13       | 0.65          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 2        | 0.65          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 15       | 0.65          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 15       | 0.65          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 15       | 0.65          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 15       | 0.65          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 1        | 0.65          |
| (1,3088) | 1:A:13:GLY:H   | 1:A:15:ARG:HE  | 7        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 2        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 3        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 4        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 5        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 6        | 0.65          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 10       | 0.65          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 9        | 0.65          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2  | 9        | 0.65          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3  | 9        | 0.65          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG2  | 17       | 0.65          |
| (1,1053) | 1:A:4:ASN:H    | 1:A:6:GLN:HG3  | 17       | 0.65          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 1        | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 1        | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 5        | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 5        | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 10       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 10       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 13       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 13       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 15       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 15       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 19       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 19       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 20       | 0.64          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 20       | 0.64          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 3        | 0.64          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3  | 4        | 0.64          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 6        | 0.64          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 6        | 0.64          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 6        | 0.64          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 6        | 0.64          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H   | 8        | 0.64          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H   | 12       | 0.64          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H   | 14       | 0.64          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 7        | 0.64          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 10       | 0.64          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 15       | 0.64          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 9        | 0.64          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 20       | 0.64          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE1 | 16       | 0.64          |
| (1,4198) | 1:A:22:GLN:HG2 | 1:A:32:TYR:HE2 | 16       | 0.64          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 9        | 0.64          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 14       | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 1        | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 7        | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 8        | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 9        | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 12       | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 18       | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 19       | 0.64          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1 | 20       | 0.64          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3 | 15       | 0.64          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 20       | 0.64          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 20       | 0.64          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 2        | 0.63          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 2        | 0.63          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 8        | 0.63          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 8        | 0.63          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2 | 20       | 0.63          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3 | 20       | 0.63          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 3        | 0.63          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 2        | 0.63          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 3        | 0.63          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 4        | 0.63          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 9        | 0.63          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 4        | 0.63          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 11       | 0.63          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 11       | 0.63          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 14       | 0.63          |
| (1,2459) | 1:A:10:GLY:H   | 1:A:11:TRP:HD1  | 16       | 0.63          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 1        | 0.63          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 6        | 0.62          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 6        | 0.62          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 3        | 0.62          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 3        | 0.62          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 5        | 0.62          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 5        | 0.62          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 5        | 0.62          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 5        | 0.62          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1  | 5        | 0.62          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2  | 5        | 0.62          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 5        | 0.62          |
| (1,4856) | 1:A:31:LYS:HA  | 1:A:34:ALA:H    | 7        | 0.62          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 18       | 0.62          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 19       | 0.62          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 12       | 0.62          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 12       | 0.62          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 14       | 0.62          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 15       | 0.62          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 4        | 0.62          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 3        | 0.61          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 3        | 0.61          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2   | 11       | 0.61          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3   | 11       | 0.61          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 2        | 0.61          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 2        | 0.61          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 2        | 0.61          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 2        | 0.61          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1  | 13       | 0.61          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2  | 13       | 0.61          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 13       | 0.61          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 20       | 0.61          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 20       | 0.61          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 20       | 0.61          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 8        | 0.61          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1  | 6        | 0.61          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2  | 6        | 0.61          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2  | 12       | 0.61          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 15       | 0.61          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 14       | 0.61          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 17       | 0.61          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 1        | 0.61          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 1        | 0.61          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 4        | 0.6           |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 4        | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 1        | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 1        | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 1        | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 12       | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 12       | 0.6           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 12       | 0.6           |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 18       | 0.6           |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 18       | 0.6           |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 19       | 0.6           |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 19       | 0.6           |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 17       | 0.6           |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 19       | 0.6           |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 12       | 0.6           |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 16       | 0.6           |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 3        | 0.6           |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H   | 13       | 0.6           |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 2        | 0.6           |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 2        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 2        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 3        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 4        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 5        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 6        | 0.6           |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 10       | 0.6           |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 4        | 0.6           |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 2        | 0.59          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2 | 3        | 0.59          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 8        | 0.59          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 12       | 0.59          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 18       | 0.59          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 8        | 0.59          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 12       | 0.59          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 19       | 0.59          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 7        | 0.59          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 8        | 0.59          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 9        | 0.59          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 18       | 0.59          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 19       | 0.59          |
| (1,4019) | 1:A:21:SER:H   | 1:A:24:GLY:HA2 | 20       | 0.59          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 13       | 0.59          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 13       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 1        | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 7        | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 8        | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 9        | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 11       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 12       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 13       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 14       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 15       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 16       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 18       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 19       | 0.59          |
| (1,2078) | 1:A:8:GLY:HA2  | 1:A:9:PRO:HG3  | 20       | 0.59          |
| (1,196)  | 1:A:6:GLN:HB2  | 1:A:7:CYS:H    | 17       | 0.59          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 2        | 0.59          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 13       | 0.59          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 14       | 0.59          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3 | 15       | 0.59          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 9        | 0.59          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 9        | 0.59          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG2  | 15       | 0.59          |
| (1,1249) | 1:A:4:ASN:HD21 | 1:A:6:GLN:HG3  | 15       | 0.59          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG2  | 14       | 0.58          |
| (1,676)  | 1:A:2:GLY:HA2  | 1:A:3:PRO:HG3  | 14       | 0.58          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3  | 4        | 0.58          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 11       | 0.58          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 11       | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 1        | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 9        | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 11       | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 12       | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 14       | 0.58          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 15       | 0.58          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 17       | 0.58          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 16       | 0.58          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 16       | 0.58          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 12       | 0.58          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 2        | 0.58          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 6        | 0.58          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 14       | 0.58          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 18       | 0.58          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 1        | 0.58          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 13       | 0.58          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 4        | 0.58          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 4        | 0.58          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 8        | 0.58          |
| (1,172)  | 1:A:28:SER:HA  | 1:A:32:TYR:HB3  | 12       | 0.58          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21  | 10       | 0.57          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 14       | 0.57          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 14       | 0.57          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2   | 18       | 0.57          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2   | 18       | 0.57          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3   | 18       | 0.57          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3   | 18       | 0.57          |
| (1,4941) | 1:A:34:ALA:HB1 | 1:A:35:HIS:HB3  | 7        | 0.57          |
| (1,4941) | 1:A:34:ALA:HB2 | 1:A:35:HIS:HB3  | 7        | 0.57          |
| (1,4941) | 1:A:34:ALA:HB3 | 1:A:35:HIS:HB3  | 7        | 0.57          |
| (1,4907) | 1:A:31:LYS:HE2 | 1:A:35:HIS:HE1  | 20       | 0.57          |
| (1,4907) | 1:A:31:LYS:HE3 | 1:A:35:HIS:HE1  | 20       | 0.57          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 17       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 2        | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 3        | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 4        | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 7        | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 8        | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 13       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 16       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 17       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 18       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 19       | 0.57          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3   | 20       | 0.57          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3  | 13       | 0.57          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 12       | 0.57          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 12       | 0.57          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 5        | 0.57          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 6        | 0.57          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 6        | 0.57          |
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H    | 16       | 0.57          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4060) | 1:A:21:SER:HB3 | 1:A:27:GLY:H   | 20       | 0.57          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2 | 14       | 0.57          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3 | 14       | 0.57          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 12       | 0.57          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 6        | 0.56          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 8        | 0.56          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 8        | 0.56          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 8        | 0.56          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H   | 2        | 0.56          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H   | 13       | 0.56          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 5        | 0.56          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 6        | 0.56          |
| (1,48)   | 1:A:6:GLN:H    | 1:A:6:GLN:HB3  | 10       | 0.56          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3 | 3        | 0.56          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 16       | 0.56          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 16       | 0.56          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 3        | 0.56          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 3        | 0.56          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 10       | 0.56          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 16       | 0.56          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 19       | 0.56          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 20       | 0.56          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 1        | 0.55          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 15       | 0.55          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 17       | 0.55          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H   | 14       | 0.55          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 18       | 0.55          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 18       | 0.55          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 19       | 0.55          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 19       | 0.55          |
| (1,3393) | 1:A:15:ARG:HD2 | 1:A:17:GLY:H   | 14       | 0.55          |
| (1,3393) | 1:A:15:ARG:HD3 | 1:A:17:GLY:H   | 14       | 0.55          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA2 | 14       | 0.55          |
| (1,3323) | 1:A:15:ARG:HB3 | 1:A:17:GLY:HA3 | 14       | 0.55          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 6        | 0.55          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 18       | 0.55          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3 | 4        | 0.55          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 5        | 0.54          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3 | 6        | 0.54          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3 | 6        | 0.54          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 10       | 0.54          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 10       | 0.54          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 10       | 0.54          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 10       | 0.54          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 13       | 0.54          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 13       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 2        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 3        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 4        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 5        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 6        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 7        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 8        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 9        | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 10       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 11       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 12       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 14       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 16       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 18       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 19       | 0.54          |
| (1,460)  | 1:A:11:TRP:HB2 | 1:A:11:TRP:HE3 | 20       | 0.54          |
| (1,4214) | 1:A:22:GLN:HG2 | 1:A:35:HIS:HE1 | 19       | 0.54          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE1 | 20       | 0.54          |
| (1,4126) | 1:A:22:GLN:H   | 1:A:32:TYR:HE2 | 20       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 1        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 2        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 3        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 4        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 5        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 7        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 8        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 9        | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 11       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 12       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 13       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 14       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 15       | 0.54          |
| (1,190)  | 1:A:29:GLY:H   | 1:A:29:GLY:HA3 | 17       | 0.54          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H   | 1        | 0.53          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21 | 1        | 0.53          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22 | 1        | 0.53          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1 | 7        | 0.53          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2 | 7        | 0.53          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 7        | 0.53          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2  | 6        | 0.53          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3  | 6        | 0.53          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 2        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 3        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 4        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 5        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 6        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 7        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 8        | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 10       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 11       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 12       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 13       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 14       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 15       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 16       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 17       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 18       | 0.52          |
| (1,4815) | 1:A:30:PRO:HB3 | 1:A:35:HIS:H    | 14       | 0.52          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 13       | 0.52          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 11       | 0.52          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 9        | 0.51          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 19       | 0.51          |
| (1,99)   | 1:A:11:TRP:HB3 | 1:A:12:GLY:H    | 20       | 0.51          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1  | 15       | 0.51          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2  | 15       | 0.51          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3  | 15       | 0.51          |
| (1,4806) | 1:A:30:PRO:HB2 | 1:A:35:HIS:H    | 8        | 0.51          |
| (1,4777) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HB2  | 10       | 0.51          |
| (1,46)   | 1:A:14:CYS:HB2 | 1:A:15:ARG:H    | 16       | 0.51          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 8        | 0.51          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 1        | 0.51          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 14       | 0.51          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 20       | 0.51          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 13       | 0.51          |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 5        | 0.5           |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 7        | 0.5           |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 16       | 0.5           |
| (1,67)   | 1:A:4:ASN:H    | 1:A:4:ASN:HB3   | 18       | 0.5           |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 11       | 0.5           |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 11       | 0.5           |

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| Key      | Atom-1          | Atom-2          | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,4865) | 1:A:31:LYS:HG2  | 1:A:31:LYS:HZ1  | 3        | 0.5           |
| (1,4865) | 1:A:31:LYS:HG2  | 1:A:31:LYS:HZ2  | 3        | 0.5           |
| (1,4865) | 1:A:31:LYS:HG2  | 1:A:31:LYS:HZ3  | 3        | 0.5           |
| (1,4806) | 1:A:30:PRO:HB2  | 1:A:35:HIS:H    | 10       | 0.5           |
| (1,4784) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HB2  | 10       | 0.5           |
| (1,4784) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HB3  | 10       | 0.5           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE1  | 10       | 0.5           |
| (1,4126) | 1:A:22:GLN:H    | 1:A:32:TYR:HE2  | 10       | 0.5           |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE21 | 17       | 0.5           |
| (1,4102) | 1:A:22:GLN:H    | 1:A:22:GLN:HE22 | 17       | 0.5           |
| (1,3392) | 1:A:15:ARG:HD2  | 1:A:16:GLY:H    | 15       | 0.5           |
| (1,3392) | 1:A:15:ARG:HD3  | 1:A:16:GLY:H    | 15       | 0.5           |
| (1,1624) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HB3  | 2        | 0.5           |
| (1,1624) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HB3  | 10       | 0.5           |
| (1,1624) | 1:A:6:GLN:HB3   | 1:A:11:TRP:HB3  | 14       | 0.5           |
| (1,712)  | 1:A:2:GLY:HA3   | 1:A:6:GLN:HE21  | 16       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 2        | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 6        | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 8        | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 10       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 11       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 12       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 13       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 17       | 0.49          |
| (1,67)   | 1:A:4:ASN:H     | 1:A:4:ASN:HB3   | 19       | 0.49          |
| (1,4879) | 1:A:31:LYS:HG3  | 1:A:31:LYS:HZ1  | 15       | 0.49          |
| (1,4879) | 1:A:31:LYS:HG3  | 1:A:31:LYS:HZ2  | 15       | 0.49          |
| (1,4879) | 1:A:31:LYS:HG3  | 1:A:31:LYS:HZ3  | 15       | 0.49          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE1  | 19       | 0.49          |
| (1,4869) | 1:A:31:LYS:HG2  | 1:A:32:TYR:HE2  | 19       | 0.49          |
| (1,4797) | 1:A:30:PRO:HB2  | 1:A:31:LYS:HG3  | 15       | 0.49          |
| (1,4785) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HD1  | 19       | 0.49          |
| (1,4785) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HD2  | 19       | 0.49          |
| (1,4785) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HD1  | 20       | 0.49          |
| (1,4785) | 1:A:29:GLY:HA3  | 1:A:32:TYR:HD2  | 20       | 0.49          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2  | 20       | 0.49          |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3  | 20       | 0.49          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1  | 4        | 0.49          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2  | 4        | 0.49          |
| (1,409)  | 1:A:27:GLY:H    | 1:A:32:TYR:HB2  | 1        | 0.49          |
| (1,409)  | 1:A:27:GLY:H    | 1:A:32:TYR:HB2  | 3        | 0.49          |
| (1,3322) | 1:A:15:ARG:HB3  | 1:A:16:GLY:HA2  | 10       | 0.49          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 10       | 0.49          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 2        | 0.49          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 5        | 0.49          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 10       | 0.49          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 16       | 0.49          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 3        | 0.49          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 5        | 0.49          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 6        | 0.49          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 12       | 0.48          |
| (1,4797) | 1:A:30:PRO:HB2 | 1:A:31:LYS:HG3  | 6        | 0.48          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1  | 18       | 0.48          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2  | 18       | 0.48          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 13       | 0.48          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 20       | 0.48          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 6        | 0.48          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 11       | 0.48          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 14       | 0.48          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 1        | 0.48          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 2        | 0.47          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 4        | 0.47          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 8        | 0.47          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 13       | 0.47          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 14       | 0.47          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 15       | 0.47          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 1        | 0.47          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 4        | 0.47          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2  | 4        | 0.47          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 7        | 0.47          |
| (1,3419) | 1:A:15:ARG:HE  | 1:A:16:GLY:H    | 16       | 0.47          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 12       | 0.47          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 12       | 0.47          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE   | 6        | 0.47          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 7        | 0.47          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 1        | 0.46          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 1        | 0.46          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2  | 10       | 0.46          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 14       | 0.46          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 4        | 0.46          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 4        | 0.46          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2  | 17       | 0.46          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3  | 17       | 0.46          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1  | 3        | 0.46          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 3        | 0.46          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD1 | 6        | 0.46          |
| (1,4488) | 1:A:24:GLY:HA3 | 1:A:25:TYR:HD2 | 6        | 0.46          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1 | 5        | 0.46          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2 | 5        | 0.46          |
| (1,3321) | 1:A:15:ARG:HB3 | 1:A:15:ARG:HE  | 19       | 0.46          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 9        | 0.46          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 3        | 0.46          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 8        | 0.46          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 13       | 0.46          |
| (1,1995) | 1:A:7:CYS:HB2  | 1:A:21:SER:H   | 17       | 0.46          |
| (1,1995) | 1:A:7:CYS:HB3  | 1:A:21:SER:H   | 17       | 0.46          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 17       | 0.46          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 11       | 0.45          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 16       | 0.45          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 16       | 0.45          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 17       | 0.45          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 13       | 0.45          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 13       | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 2        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 3        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 4        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 5        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 6        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 9        | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 10       | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 12       | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 14       | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 16       | 0.45          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 20       | 0.45          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 12       | 0.44          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 9        | 0.44          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1 | 16       | 0.44          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2 | 16       | 0.44          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3 | 16       | 0.44          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 11       | 0.44          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 12       | 0.44          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 12       | 0.44          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 16       | 0.44          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 9        | 0.44          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 18       | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 1        | 0.44          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 7        | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 8        | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 11       | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 13       | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 15       | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 18       | 0.44          |
| (1,116)  | 1:A:9:PRO:HB3  | 1:A:11:TRP:H   | 19       | 0.44          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 13       | 0.43          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 12       | 0.43          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 1        | 0.43          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 5        | 0.43          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 6        | 0.43          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 11       | 0.43          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 17       | 0.43          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3  | 2        | 0.43          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 14       | 0.43          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 14       | 0.43          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 14       | 0.43          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ1 | 6        | 0.43          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ2 | 6        | 0.43          |
| (1,4832) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HZ3 | 6        | 0.43          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H   | 13       | 0.43          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 9        | 0.43          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3 | 20       | 0.43          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 4        | 0.43          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 17       | 0.43          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 8        | 0.42          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 2        | 0.42          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 3        | 0.42          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 18       | 0.42          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 19       | 0.42          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 20       | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 3        | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 3        | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 4        | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 4        | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD1 | 6        | 0.42          |
| (1,4360) | 1:A:23:TYR:HA  | 1:A:25:TYR:HD2 | 6        | 0.42          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE1 | 11       | 0.42          |
| (1,4219) | 1:A:22:GLN:HB3 | 1:A:23:TYR:HE2 | 11       | 0.42          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 5        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 1        | 0.42          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 2        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 3        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 4        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 5        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 6        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 7        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 8        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 9        | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 10       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 11       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 12       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 13       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 14       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 15       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 16       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 17       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 18       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 19       | 0.42          |
| (1,362)  | 1:A:9:PRO:HB2  | 1:A:9:PRO:HG3  | 20       | 0.42          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 20       | 0.42          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 20       | 0.42          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 19       | 0.42          |
| (1,124)  | 1:A:5:GLY:HA2  | 1:A:26:CYS:H   | 17       | 0.42          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 7        | 0.41          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 7        | 0.41          |
| (1,4915) | 1:A:32:TYR:H   | 1:A:33:CYS:HB2 | 16       | 0.41          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 4        | 0.41          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 4        | 0.41          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 2        | 0.41          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 2        | 0.41          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 12       | 0.41          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2 | 11       | 0.41          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3 | 11       | 0.41          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 11       | 0.41          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 12       | 0.41          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 17       | 0.41          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 9        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 1        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 2        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 3        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 4        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 5        | 0.4           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 6        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 7        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 8        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 9        | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 10       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 11       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 12       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 13       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 14       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 15       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 16       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 17       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 18       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 19       | 0.4           |
| (1,70)   | 1:A:12:GLY:H   | 1:A:12:GLY:HA3 | 20       | 0.4           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 2        | 0.4           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 2        | 0.4           |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 13       | 0.4           |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 15       | 0.4           |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3 | 6        | 0.4           |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 15       | 0.39          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 19       | 0.39          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3 | 17       | 0.39          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3 | 17       | 0.39          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 9        | 0.39          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 9        | 0.39          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 9        | 0.39          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 9        | 0.39          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB2  | 17       | 0.39          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB2  | 17       | 0.39          |
| (1,539)  | 1:A:1:SER:HB2  | 1:A:6:GLN:HB3  | 17       | 0.39          |
| (1,539)  | 1:A:1:SER:HB3  | 1:A:6:GLN:HB3  | 17       | 0.39          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3  | 3        | 0.39          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 3        | 0.39          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 3        | 0.39          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 2        | 0.39          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 2        | 0.39          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 4        | 0.39          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 4        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1 | 1        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1 | 2        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1 | 3        | 0.39          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 4        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 5        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 6        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 7        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 8        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 9        | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 10       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 11       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 12       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 14       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 16       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 18       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 19       | 0.39          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 20       | 0.39          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 8        | 0.39          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 8        | 0.39          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 15       | 0.39          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB2  | 19       | 0.38          |
| (1,4857) | 1:A:31:LYS:HA  | 1:A:35:HIS:HB3  | 19       | 0.38          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 13       | 0.38          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 13       | 0.38          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 11       | 0.38          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 18       | 0.38          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 9        | 0.38          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 8        | 0.38          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 15       | 0.38          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 17       | 0.38          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H    | 16       | 0.38          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H    | 16       | 0.38          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 7        | 0.38          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 3        | 0.38          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 5        | 0.38          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 6        | 0.38          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 10       | 0.38          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21  | 18       | 0.37          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 14       | 0.37          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 14       | 0.37          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 1        | 0.37          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 1        | 0.37          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 7        | 0.37          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 7        | 0.37          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 15       | 0.37          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 15       | 0.37          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ1  | 6        | 0.37          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ2  | 6        | 0.37          |
| (1,4782) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HZ3  | 6        | 0.37          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 7        | 0.37          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 7        | 0.37          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 14       | 0.37          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 3        | 0.37          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 18       | 0.37          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 19       | 0.37          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 3        | 0.37          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 4        | 0.37          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 6        | 0.37          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3   | 15       | 0.37          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3   | 15       | 0.37          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 2        | 0.37          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 4        | 0.37          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 14       | 0.37          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE21  | 17       | 0.36          |
| (1,681)  | 1:A:2:GLY:HA2  | 1:A:6:GLN:HE22  | 17       | 0.36          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2  | 1        | 0.36          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD2  | 15       | 0.36          |
| (1,4840) | 1:A:30:PRO:HD3 | 1:A:31:LYS:HD3  | 15       | 0.36          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 5        | 0.36          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 5        | 0.36          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 11       | 0.36          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 11       | 0.36          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 18       | 0.36          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 19       | 0.36          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 20       | 0.36          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 19       | 0.36          |
| (1,393)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 13       | 0.36          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 3        | 0.36          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 6        | 0.36          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 6        | 0.36          |
| (1,311)  | 1:A:14:CYS:HB2 | 1:A:18:LEU:HB3  | 11       | 0.36          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 12       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 1        | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 7        | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 8        | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 9        | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 11       | 0.36          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 12       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 13       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 15       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 16       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 17       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 18       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 19       | 0.36          |
| (1,218)  | 1:A:5:GLY:H    | 1:A:5:GLY:HA3   | 20       | 0.36          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22  | 3        | 0.35          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 5        | 0.35          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 5        | 0.35          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 8        | 0.35          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 8        | 0.35          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1  | 11       | 0.35          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2  | 11       | 0.35          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3  | 11       | 0.35          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1  | 7        | 0.35          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2  | 7        | 0.35          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1  | 10       | 0.35          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2  | 10       | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 9        | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 9        | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 14       | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 14       | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 17       | 0.35          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 17       | 0.35          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE21 | 15       | 0.35          |
| (1,4102) | 1:A:22:GLN:H   | 1:A:22:GLN:HE22 | 15       | 0.35          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 4        | 0.35          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 11       | 0.35          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 18       | 0.35          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 6        | 0.35          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 1        | 0.35          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 1        | 0.35          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 1        | 0.35          |
| (1,282)  | 1:A:23:TYR:H   | 1:A:23:TYR:HB3  | 15       | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 1        | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 2        | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 5        | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 10       | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 11       | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 13       | 0.35          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3 | 15       | 0.35          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3 | 17       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 1        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 2        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 3        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 4        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 5        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 6        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 7        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 8        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 9        | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 10       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 11       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 12       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 13       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 14       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 15       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 16       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 17       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 18       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 19       | 0.35          |
| (1,267)  | 1:A:9:PRO:HB2  | 1:A:10:GLY:H   | 20       | 0.35          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 3        | 0.34          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3 | 20       | 0.34          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3 | 20       | 0.34          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 12       | 0.34          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 12       | 0.34          |
| (1,4818) | 1:A:30:PRO:HB3 | 1:A:35:HIS:HE1 | 12       | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 3        | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 3        | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 6        | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 6        | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2 | 8        | 0.34          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3 | 8        | 0.34          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 16       | 0.34          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 8        | 0.34          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 10       | 0.34          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 10       | 0.34          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 7        | 0.34          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3 | 5        | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3 | 7        | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3 | 8        | 0.34          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 9        | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 14       | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 16       | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 18       | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 19       | 0.34          |
| (1,272)  | 1:A:24:GLY:H   | 1:A:24:GLY:HA3  | 20       | 0.34          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 14       | 0.34          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 8        | 0.34          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 18       | 0.34          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 19       | 0.34          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 2        | 0.33          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 2        | 0.33          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 10       | 0.33          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 10       | 0.33          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 6        | 0.33          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1  | 6        | 0.33          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2  | 6        | 0.33          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 6        | 0.33          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB2  | 12       | 0.33          |
| (1,4784) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HB3  | 12       | 0.33          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 16       | 0.33          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 2        | 0.33          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 19       | 0.33          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 7        | 0.33          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 17       | 0.33          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 5        | 0.33          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 5        | 0.33          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 17       | 0.33          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 14       | 0.33          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22  | 4        | 0.32          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1  | 9        | 0.32          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2  | 9        | 0.32          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 12       | 0.32          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22  | 16       | 0.32          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 1        | 0.32          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 9        | 0.32          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 11       | 0.32          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 12       | 0.32          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA2  | 17       | 0.32          |
| (1,3322) | 1:A:15:ARG:HB3 | 1:A:16:GLY:HA3  | 17       | 0.32          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 1        | 0.32          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 8        | 0.32          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 9        | 0.32          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 18       | 0.32          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 20       | 0.32          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 10       | 0.32          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 12       | 0.32          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 9        | 0.31          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 20       | 0.31          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 4        | 0.31          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 20       | 0.31          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1 | 12       | 0.31          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2 | 12       | 0.31          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3 | 12       | 0.31          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 13       | 0.31          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 13       | 0.31          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 20       | 0.31          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 20       | 0.31          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 10       | 0.31          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 3        | 0.31          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 3        | 0.31          |
| (1,379)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 8        | 0.31          |
| (1,3420) | 1:A:15:ARG:HE  | 1:A:16:GLY:HA3 | 16       | 0.31          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3 | 8        | 0.31          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3 | 13       | 0.31          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3 | 14       | 0.31          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3 | 15       | 0.31          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 7        | 0.31          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 11       | 0.31          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 12       | 0.31          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 15       | 0.31          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H    | 19       | 0.31          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 14       | 0.3           |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3 | 13       | 0.3           |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3 | 13       | 0.3           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 20       | 0.3           |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 20       | 0.3           |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 5        | 0.3           |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 5        | 0.3           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 10       | 0.3           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 10       | 0.3           |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 10       | 0.3           |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 15       | 0.3           |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 15       | 0.3           |

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| Key      | Atom-1          | Atom-2         | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB2 | 1        | 0.3           |
| (1,4301) | 1:A:22:GLN:HE21 | 1:A:35:HIS:HB3 | 1        | 0.3           |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA2 | 4        | 0.3           |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA3 | 4        | 0.3           |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA2 | 6        | 0.3           |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA3 | 6        | 0.3           |
| (1,339)  | 1:A:29:GLY:HA3  | 1:A:30:PRO:HD3 | 2        | 0.3           |
| (1,339)  | 1:A:29:GLY:HA3  | 1:A:30:PRO:HD3 | 4        | 0.3           |
| (1,339)  | 1:A:29:GLY:HA3  | 1:A:30:PRO:HD3 | 10       | 0.3           |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA2 | 2        | 0.3           |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA3 | 2        | 0.3           |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA2 | 3        | 0.3           |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA3 | 3        | 0.3           |
| (1,216)  | 1:A:5:GLY:HA3   | 1:A:6:GLN:H    | 13       | 0.3           |
| (1,216)  | 1:A:5:GLY:HA3   | 1:A:6:GLN:H    | 16       | 0.3           |
| (1,49)   | 1:A:2:GLY:H     | 1:A:6:GLN:HB3  | 10       | 0.29          |
| (1,45)   | 1:A:14:CYS:HB2  | 1:A:18:LEU:H   | 15       | 0.29          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE1 | 2        | 0.29          |
| (1,4219) | 1:A:22:GLN:HB3  | 1:A:23:TYR:HE2 | 2        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 1        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 2        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 3        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 4        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 5        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 6        | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 10       | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 11       | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 13       | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 15       | 0.29          |
| (1,40)   | 1:A:14:CYS:HA   | 1:A:14:CYS:HB2 | 17       | 0.29          |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA2 | 2        | 0.29          |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA3 | 2        | 0.29          |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA2 | 5        | 0.29          |
| (1,3832) | 1:A:19:CYS:H    | 1:A:27:GLY:HA3 | 5        | 0.29          |
| (1,379)  | 1:A:4:ASN:HB3   | 1:A:6:GLN:HE22 | 12       | 0.29          |
| (1,379)  | 1:A:4:ASN:HB3   | 1:A:6:GLN:HE22 | 16       | 0.29          |
| (1,339)  | 1:A:29:GLY:HA3  | 1:A:30:PRO:HD3 | 16       | 0.29          |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA2 | 4        | 0.29          |
| (1,3323) | 1:A:15:ARG:HB3  | 1:A:17:GLY:HA3 | 4        | 0.29          |
| (1,216)  | 1:A:5:GLY:HA3   | 1:A:6:GLN:H    | 3        | 0.29          |
| (1,216)  | 1:A:5:GLY:HA3   | 1:A:6:GLN:H    | 4        | 0.29          |
| (1,1119) | 1:A:4:ASN:HB2   | 1:A:6:GLN:H    | 5        | 0.29          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 1        | 0.28          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 7        | 0.28          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 1        | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 7        | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 8        | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 9        | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 12       | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 14       | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 16       | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 18       | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 19       | 0.28          |
| (1,40)   | 1:A:14:CYS:HA  | 1:A:14:CYS:HB2  | 20       | 0.28          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 12       | 0.28          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 12       | 0.28          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 15       | 0.28          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 18       | 0.28          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 19       | 0.28          |
| (1,339)  | 1:A:29:GLY:HA3 | 1:A:30:PRO:HD3  | 20       | 0.28          |
| (1,3289) | 1:A:15:ARG:HB2 | 1:A:15:ARG:HE   | 20       | 0.28          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 2        | 0.28          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 5        | 0.28          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 10       | 0.28          |
| (1,1624) | 1:A:6:GLN:HB3  | 1:A:11:TRP:HB3  | 17       | 0.28          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 7        | 0.28          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H     | 11       | 0.28          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1  | 18       | 0.27          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2  | 18       | 0.27          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3  | 18       | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 2        | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 4        | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 5        | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 9        | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 11       | 0.27          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 17       | 0.27          |
| (1,216)  | 1:A:5:GLY:HA3  | 1:A:6:GLN:H     | 6        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 1        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 2        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 3        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 4        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 5        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 6        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2   | 7        | 0.27          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 8        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 9        | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 10       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 11       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 12       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 13       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 14       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 15       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 16       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 17       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 18       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 19       | 0.27          |
| (1,182)  | 1:A:9:PRO:HA   | 1:A:9:PRO:HB2  | 20       | 0.27          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 6        | 0.27          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 16       | 0.27          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 1        | 0.26          |
| (1,950)  | 1:A:3:PRO:HD2  | 1:A:4:ASN:HD22 | 15       | 0.26          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 5        | 0.26          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 5        | 0.26          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 5        | 0.26          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2 | 6        | 0.26          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3 | 6        | 0.26          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 3        | 0.26          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 6        | 0.26          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 13       | 0.26          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 14       | 0.26          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 15       | 0.26          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 14       | 0.26          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 14       | 0.26          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA2 | 16       | 0.26          |
| (1,3290) | 1:A:15:ARG:HB2 | 1:A:16:GLY:HA3 | 16       | 0.26          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3  | 14       | 0.26          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3  | 14       | 0.26          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 2        | 0.26          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 7        | 0.25          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 9        | 0.25          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 16       | 0.25          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 18       | 0.25          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 19       | 0.25          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 20       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 1        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 2        | 0.25          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 3        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 4        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 7        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 8        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 9        | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 10       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 11       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 13       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 14       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 15       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 17       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 18       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 19       | 0.25          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3  | 20       | 0.25          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 3        | 0.25          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H   | 8        | 0.25          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 10       | 0.25          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 13       | 0.25          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 13       | 0.25          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3  | 4        | 0.25          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3  | 4        | 0.25          |
| (1,1119) | 1:A:4:ASN:HB2  | 1:A:6:GLN:H    | 13       | 0.25          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 1        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 2        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 3        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 4        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 5        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 6        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 7        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 8        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 9        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 10       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 11       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 12       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 13       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 14       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 15       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 16       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 18       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 19       | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3 | 20       | 0.24          |
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3 | 8        | 0.24          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,73)   | 1:A:17:GLY:H   | 1:A:17:GLY:HA3  | 12       | 0.24          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3   | 5        | 0.24          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3   | 6        | 0.24          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3   | 12       | 0.24          |
| (1,69)   | 1:A:8:GLY:H    | 1:A:8:GLY:HA3   | 16       | 0.24          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG2  | 10       | 0.24          |
| (1,4831) | 1:A:30:PRO:HD2 | 1:A:31:LYS:HG3  | 10       | 0.24          |
| (1,4783) | 1:A:29:GLY:HA3 | 1:A:32:TYR:H    | 12       | 0.24          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 1        | 0.24          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 3        | 0.24          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 14       | 0.24          |
| (1,1122) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HG3   | 5        | 0.24          |
| (1,77)   | 1:A:10:GLY:H   | 1:A:10:GLY:HA3  | 17       | 0.23          |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21  | 1        | 0.23          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2  | 14       | 0.23          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1  | 7        | 0.23          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2  | 7        | 0.23          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3  | 7        | 0.23          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 6        | 0.23          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 11       | 0.23          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 1        | 0.23          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 1        | 0.23          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 3        | 0.23          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 4        | 0.23          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 10       | 0.23          |
| (1,49)   | 1:A:2:GLY:H    | 1:A:6:GLN:HB3   | 5        | 0.22          |
| (1,45)   | 1:A:14:CYS:HB2 | 1:A:18:LEU:H    | 14       | 0.22          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 7        | 0.22          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 8        | 0.22          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 8        | 0.22          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 15       | 0.22          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 15       | 0.22          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 17       | 0.22          |
| (1,1122) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HG3   | 10       | 0.22          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 15       | 0.21          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 15       | 0.21          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 18       | 0.21          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 18       | 0.21          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1  | 5        | 0.21          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2  | 5        | 0.21          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 4        | 0.21          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 11       | 0.21          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 11       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 1        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 2        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 3        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 4        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 5        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 6        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 7        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 8        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 9        | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 10       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 11       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 12       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 13       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 14       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 15       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 16       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 17       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 18       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 19       | 0.21          |
| (1,238)  | 1:A:30:PRO:HA  | 1:A:30:PRO:HB2 | 20       | 0.21          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3 | 3        | 0.21          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3 | 6        | 0.21          |
| (1,1122) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HG3  | 6        | 0.21          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3 | 7        | 0.2           |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3 | 7        | 0.2           |
| (1,4939) | 1:A:33:CYS:HB2 | 1:A:35:HIS:HE1 | 12       | 0.2           |
| (1,4939) | 1:A:33:CYS:HB3 | 1:A:35:HIS:HE1 | 12       | 0.2           |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1 | 4        | 0.2           |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2 | 4        | 0.2           |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3 | 4        | 0.2           |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 7        | 0.2           |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 7        | 0.2           |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 9        | 0.2           |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 9        | 0.2           |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 17       | 0.2           |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 17       | 0.2           |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 17       | 0.2           |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 5        | 0.2           |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 6        | 0.2           |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 18       | 0.2           |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 18       | 0.2           |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 20       | 0.2           |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 20       | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 1        | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 10       | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 16       | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 18       | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 19       | 0.2           |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 20       | 0.2           |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 14       | 0.2           |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 2        | 0.2           |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 5        | 0.2           |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 6        | 0.2           |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 10       | 0.2           |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 19       | 0.2           |
| (1,712)  | 1:A:2:GLY:HA3  | 1:A:6:GLN:HE21 | 14       | 0.19          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ1 | 1        | 0.19          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ2 | 1        | 0.19          |
| (1,4879) | 1:A:31:LYS:HG3 | 1:A:31:LYS:HZ3 | 1        | 0.19          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 3        | 0.19          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 3        | 0.19          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 6        | 0.19          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 6        | 0.19          |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 10       | 0.19          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 17       | 0.19          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 17       | 0.19          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 19       | 0.19          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 19       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 2        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 3        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 4        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 5        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 6        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 7        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 8        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 9        | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 11       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 12       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 13       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 14       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 15       | 0.19          |
| (1,254)  | 1:A:28:SER:H   | 1:A:28:SER:HB2 | 17       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 1        | 0.19          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 2        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 3        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 4        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 5        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 6        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 7        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 8        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 9        | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 10       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 11       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 12       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 13       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 14       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 15       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 16       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 17       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 18       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 19       | 0.19          |
| (1,24)   | 1:A:11:TRP:HA  | 1:A:11:TRP:HB2 | 20       | 0.19          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3 | 5        | 0.19          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 16       | 0.19          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 18       | 0.19          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 1        | 0.18          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 1        | 0.18          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD1 | 11       | 0.18          |
| (1,4785) | 1:A:29:GLY:HA3 | 1:A:32:TYR:HD2 | 11       | 0.18          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 9        | 0.18          |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 2        | 0.18          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 16       | 0.18          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 16       | 0.18          |
| (1,3392) | 1:A:15:ARG:HD2 | 1:A:16:GLY:H   | 18       | 0.18          |
| (1,3392) | 1:A:15:ARG:HD3 | 1:A:16:GLY:H   | 18       | 0.18          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3  | 11       | 0.18          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3  | 11       | 0.18          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3 | 7        | 0.18          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 8        | 0.18          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 11       | 0.18          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 12       | 0.18          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 13       | 0.18          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3 | 15       | 0.18          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 7        | 0.18          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H    | 8        | 0.18          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H     | 12       | 0.18          |
| (1,450)  | 1:A:21:SER:HG  | 1:A:23:TYR:HB3  | 14       | 0.17          |
| (1,450)  | 1:A:21:SER:HG  | 1:A:23:TYR:HB3  | 20       | 0.17          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 5        | 0.17          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 15       | 0.17          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 18       | 0.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE21 | 7        | 0.17          |
| (1,4133) | 1:A:22:GLN:HA  | 1:A:22:GLN:HE22 | 7        | 0.17          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 17       | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 1        | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 7        | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 9        | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 16       | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 18       | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 19       | 0.17          |
| (1,142)  | 1:A:26:CYS:H   | 1:A:26:CYS:HB3  | 20       | 0.17          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 1        | 0.17          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 13       | 0.17          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 15       | 0.17          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H     | 11       | 0.17          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H     | 13       | 0.17          |
| (1,1117) | 1:A:4:ASN:HB2  | 1:A:5:GLY:H     | 17       | 0.17          |
| (1,545)  | 1:A:1:SER:HB2  | 1:A:11:TRP:HB3  | 19       | 0.16          |
| (1,545)  | 1:A:1:SER:HB3  | 1:A:11:TRP:HB3  | 19       | 0.16          |
| (1,450)  | 1:A:21:SER:HG  | 1:A:23:TYR:HB3  | 1        | 0.16          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 12       | 0.16          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 16       | 0.16          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 19       | 0.16          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2  | 9        | 0.16          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3  | 9        | 0.16          |
| (1,3620) | 1:A:17:GLY:HA3 | 1:A:18:LEU:HG   | 2        | 0.16          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 7        | 0.16          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 7        | 0.16          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD2  | 19       | 0.16          |
| (1,3169) | 1:A:14:CYS:H   | 1:A:15:ARG:HD3  | 19       | 0.16          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 1        | 0.16          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 11       | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 7        | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 8        | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 11       | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 12       | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3  | 16       | 0.16          |

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| Key      | Atom-1         | Atom-2         | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 18       | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 19       | 0.16          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 20       | 0.16          |
| (1,4921) | 1:A:32:TYR:HA  | 1:A:35:HIS:HB3 | 19       | 0.15          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 15       | 0.15          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 15       | 0.15          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 13       | 0.15          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 15       | 0.15          |
| (1,432)  | 1:A:6:GLN:HB2  | 1:A:11:TRP:HD1 | 3        | 0.15          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 18       | 0.15          |
| (1,409)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 20       | 0.15          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA2 | 7        | 0.15          |
| (1,3832) | 1:A:19:CYS:H   | 1:A:27:GLY:HA3 | 7        | 0.15          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 9        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 2        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 3        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 4        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 5        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 6        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 9        | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 10       | 0.15          |
| (1,14)   | 1:A:7:CYS:HA   | 1:A:11:TRP:HB3 | 14       | 0.15          |
| (1,1122) | 1:A:4:ASN:HB2  | 1:A:6:GLN:HG3  | 2        | 0.15          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 4        | 0.14          |
| (1,4943) | 1:A:35:HIS:HB3 | 1:A:35:HIS:HD2 | 5        | 0.14          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD1 | 14       | 0.14          |
| (1,4868) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HD2 | 14       | 0.14          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ1 | 13       | 0.14          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ2 | 13       | 0.14          |
| (1,4865) | 1:A:31:LYS:HG2 | 1:A:31:LYS:HZ3 | 13       | 0.14          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD2 | 6        | 0.14          |
| (1,4780) | 1:A:29:GLY:HA3 | 1:A:31:LYS:HD3 | 6        | 0.14          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3 | 9        | 0.14          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 12       | 0.14          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H   | 20       | 0.14          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE1 | 11       | 0.13          |
| (1,4869) | 1:A:31:LYS:HG2 | 1:A:32:TYR:HE2 | 11       | 0.13          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 2        | 0.13          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 5        | 0.13          |
| (1,470)  | 1:A:4:ASN:HB3  | 1:A:6:GLN:HE22 | 6        | 0.13          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2 | 8        | 0.13          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3  | 17       | 0.13          |

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| Key      | Atom-1         | Atom-2          | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3   | 17       | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 2        | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 4        | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 13       | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 14       | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 15       | 0.13          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 20       | 0.13          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 7        | 0.13          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 8        | 0.13          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 18       | 0.13          |
| (1,189)  | 1:A:16:GLY:HA2 | 1:A:17:GLY:H    | 19       | 0.13          |
| (1,437)  | 1:A:27:GLY:H   | 1:A:32:TYR:HB2  | 14       | 0.12          |
| (1,4245) | 1:A:22:GLN:HG3 | 1:A:22:GLN:HE22 | 6        | 0.12          |
| (1,26)   | 1:A:1:SER:HB2  | 1:A:5:GLY:HA3   | 2        | 0.12          |
| (1,26)   | 1:A:1:SER:HB3  | 1:A:5:GLY:HA3   | 2        | 0.12          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 8        | 0.12          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 18       | 0.12          |
| (1,226)  | 1:A:29:GLY:H   | 1:A:32:TYR:HB3  | 19       | 0.12          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ1  | 16       | 0.11          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ2  | 16       | 0.11          |
| (1,4820) | 1:A:30:PRO:HG2 | 1:A:31:LYS:HZ3  | 16       | 0.11          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ1  | 16       | 0.11          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ2  | 16       | 0.11          |
| (1,4820) | 1:A:30:PRO:HG3 | 1:A:31:LYS:HZ3  | 16       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 1        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 2        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 3        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 4        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 5        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 6        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 7        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 8        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 9        | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 10       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 11       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 12       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 14       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 16       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 18       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 19       | 0.11          |
| (1,452)  | 1:A:11:TRP:HB3 | 1:A:11:TRP:HD1  | 20       | 0.11          |
| (1,4216) | 1:A:22:GLN:HB3 | 1:A:22:GLN:HE22 | 10       | 0.11          |

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| <b>Key</b> | <b>Atom-1</b> | <b>Atom-2</b>  | <b>Model ID</b> | <b>Violation (Å)</b> |
|------------|---------------|----------------|-----------------|----------------------|
| (1,26)     | 1:A:1:SER:HB2 | 1:A:5:GLY:HA3  | 3               | 0.11                 |
| (1,26)     | 1:A:1:SER:HB3 | 1:A:5:GLY:HA3  | 3               | 0.11                 |
| (1,226)    | 1:A:29:GLY:H  | 1:A:32:TYR:HB3 | 12              | 0.11                 |
| (1,226)    | 1:A:29:GLY:H  | 1:A:32:TYR:HB3 | 16              | 0.11                 |

## 10 Dihedral-angle violation analysis

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value